

Supporting Information

The Journal of Organic Chemistry

Synthesis and Biological Evaluation of Aromatic Analogues of Conduritol F, L-*chiro*-Inositol and Dihydroconduritol F Structurally Related to the Amaryllidaceae Anticancer Constituents

Artem S. Kireev, Oleg N. Nadein, Vincent J. Agustin, Nancy E. Bush, Antonio Evidente, Madhuri Manpadi, Marcia A. Ogasawara, Shiva K. Rastogi, Snezna Rogelj, Scott T. Shors and Alexander Kornienko*

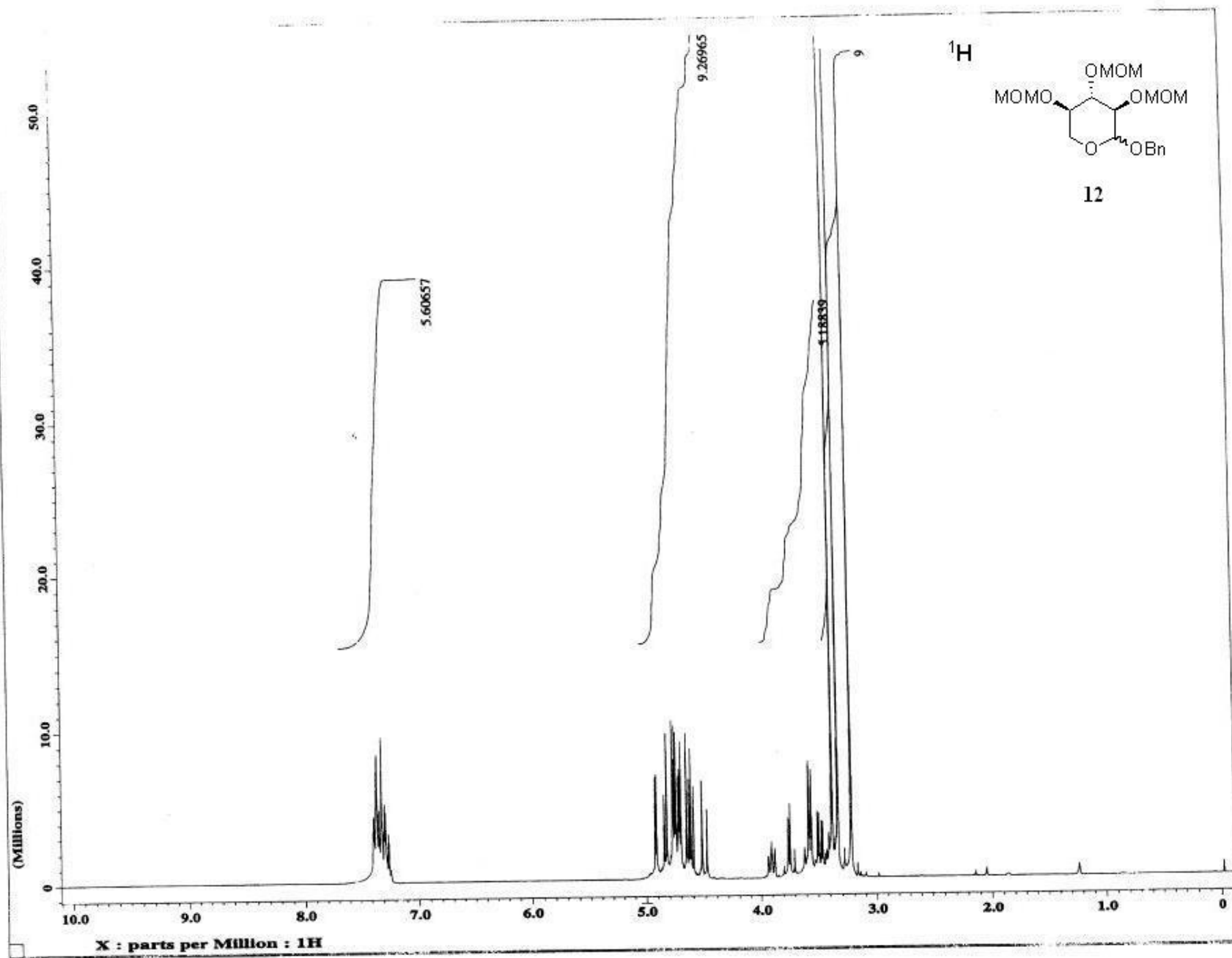
Departments of Chemistry and Biology, New Mexico Institute of Mining and Technology, Socorro, New Mexico 87801, USA, and Dipartimento di Scienze del Suolo, della Pianta e dell'Ambiente, Università di Napoli Federico II, 80055 Napoli, Italy

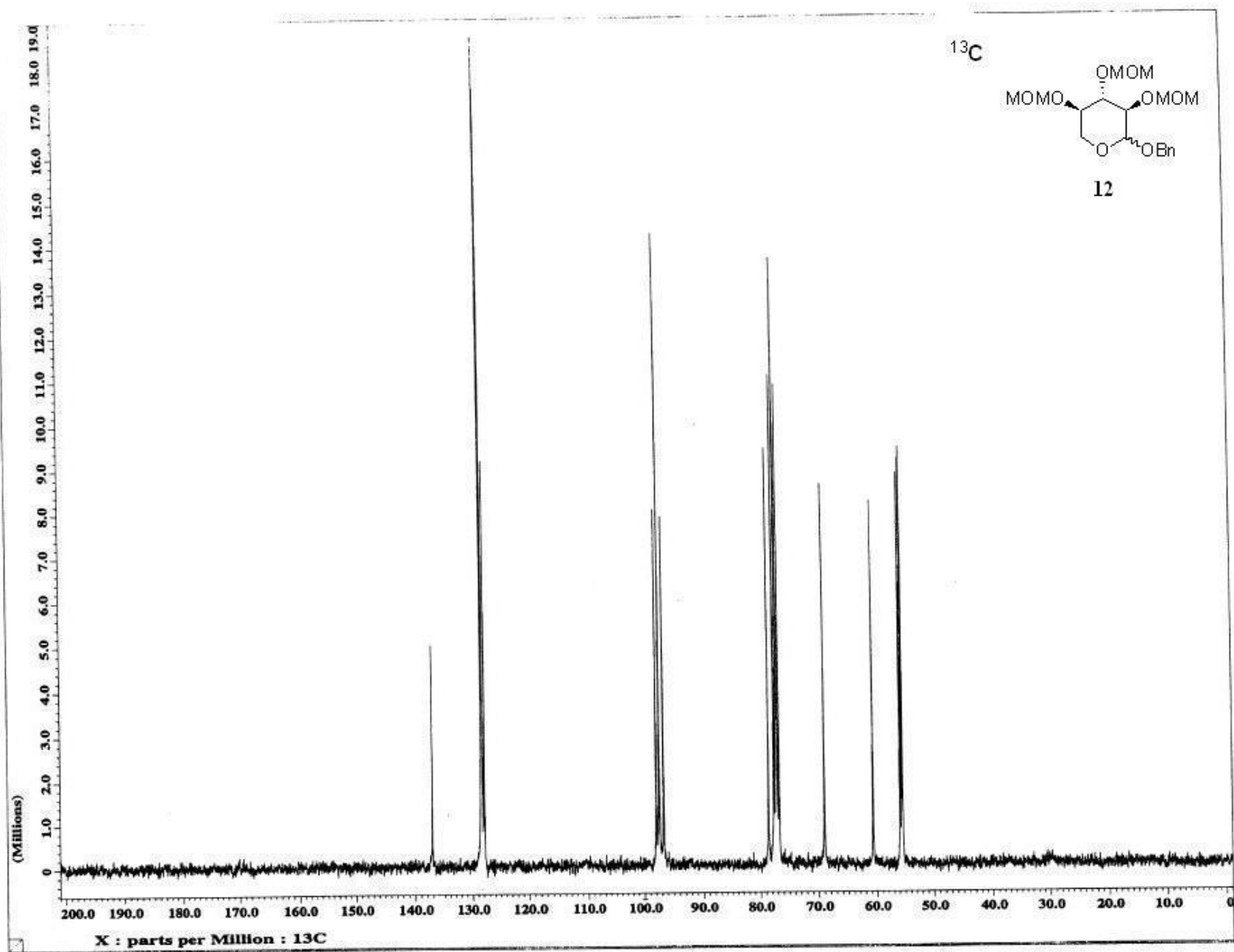
akornien@nmt.edu

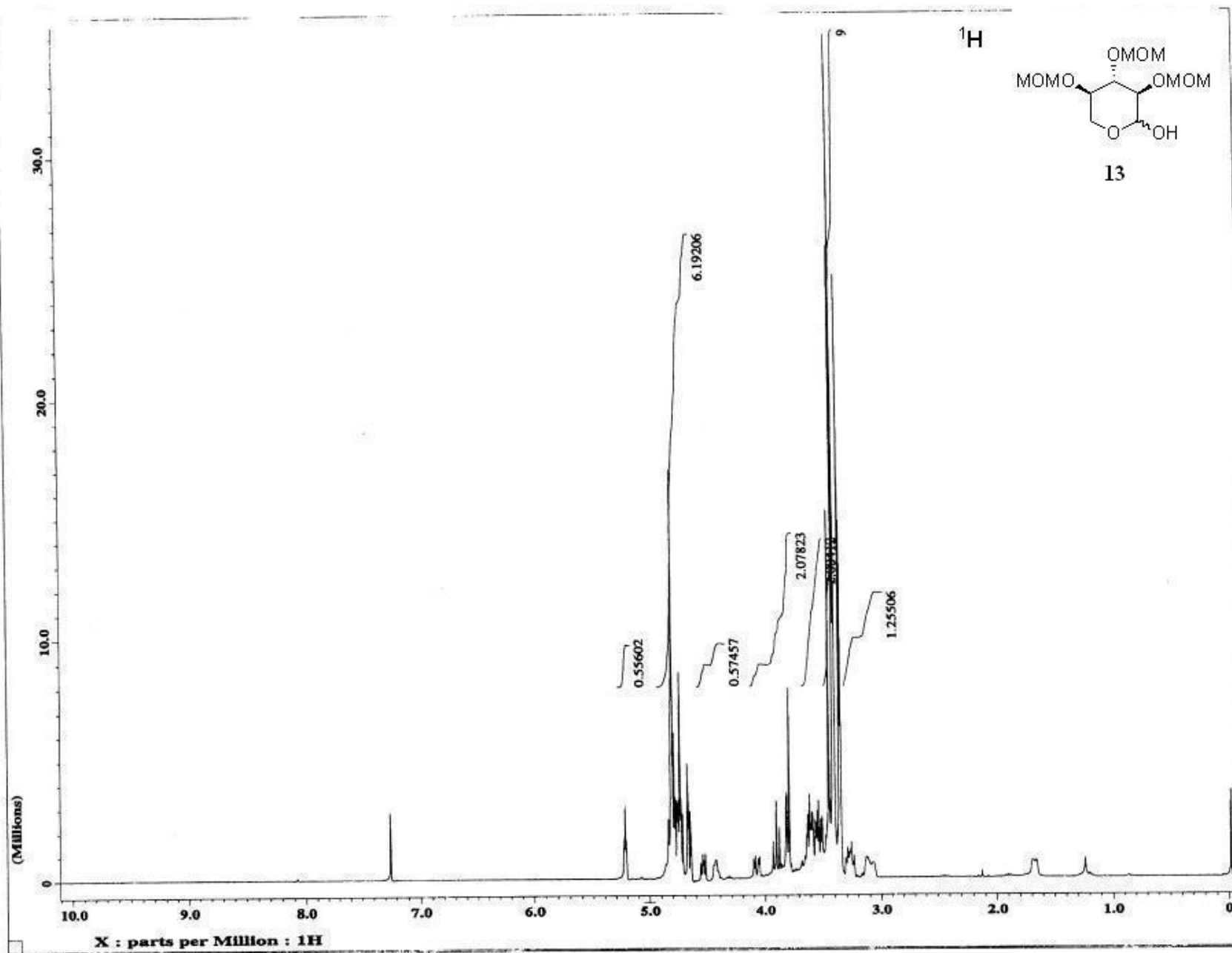
Table of contents

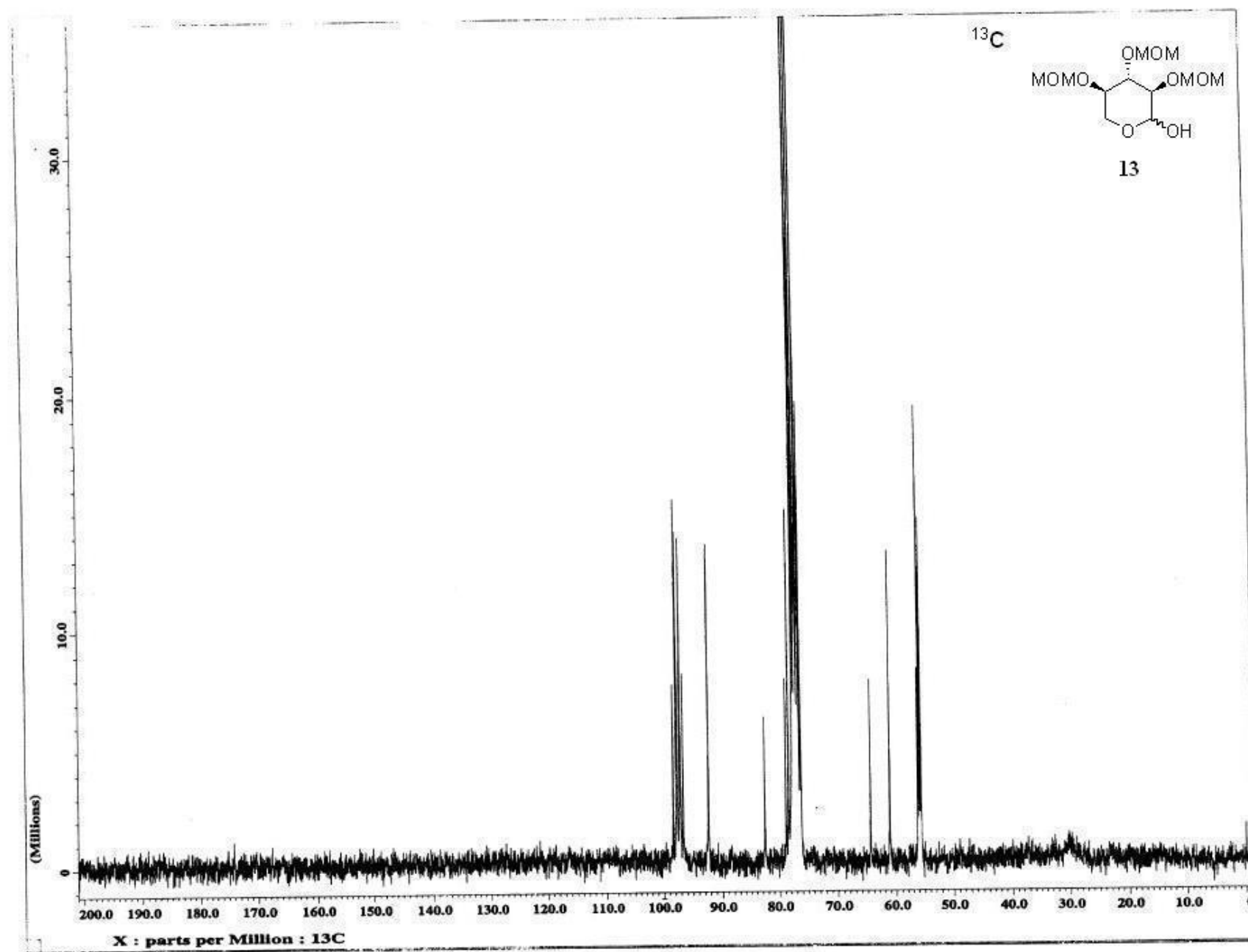
1. General Methods	S1
2. Copies of ¹ H and ¹³ C NMR spectra for compound 12-21 , 8e , 27a-g , 28a-g , 29a-g , and 30a-g .	S2 – S81
3. Copies of ¹ H, ¹³ C NMR, NOESY, and NOE difference spectra for compound 31 .	S82 – S87
4. Copies of ¹ H and ¹³ C NMR spectra for compound 8a-e , 9a-e and 10a-e .	S88 – S117
5. References	S118

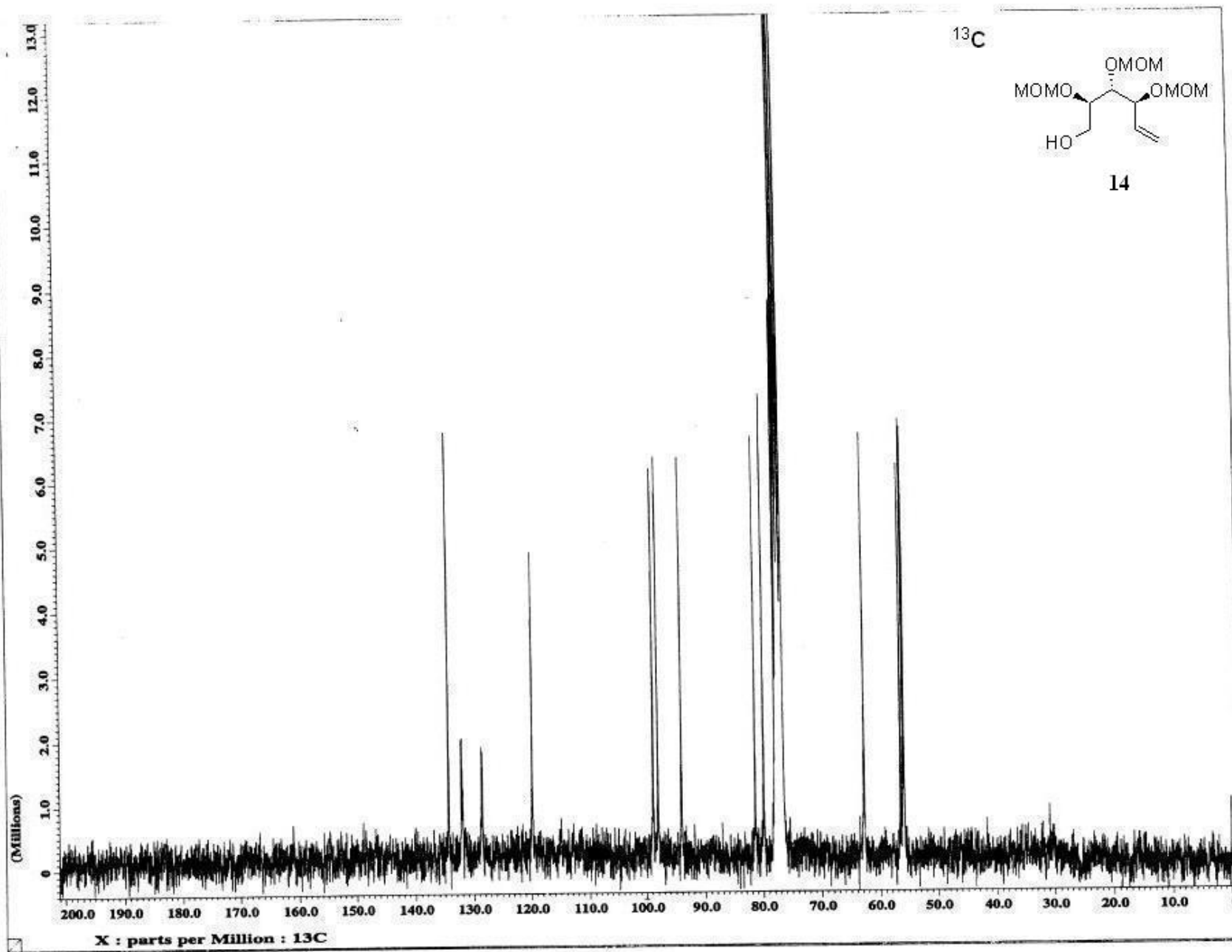
General Methods. Unless otherwise noted all commercially obtained reagents were used without purification. THF was distilled from sodium-benzophenone ketyl prior to use. Dichloromethane and methanol were distilled from calcium hydride. Reactions were carried out under a nitrogen atmosphere in oven-dried glassware using standard syringe, cannula and septa techniques. Reactions were monitored by TLC (Silica Gel 60 F₂₅₄, 250 μm) and visualized with UV light and ceric ammonium molybdate solution. Flash chromatography was performed on silica gel (32-63 μm, 60 Å pore size). Aryl bromides **c**¹ and **e**,^{2,3} and MOMCl⁴ were prepared as previously described.

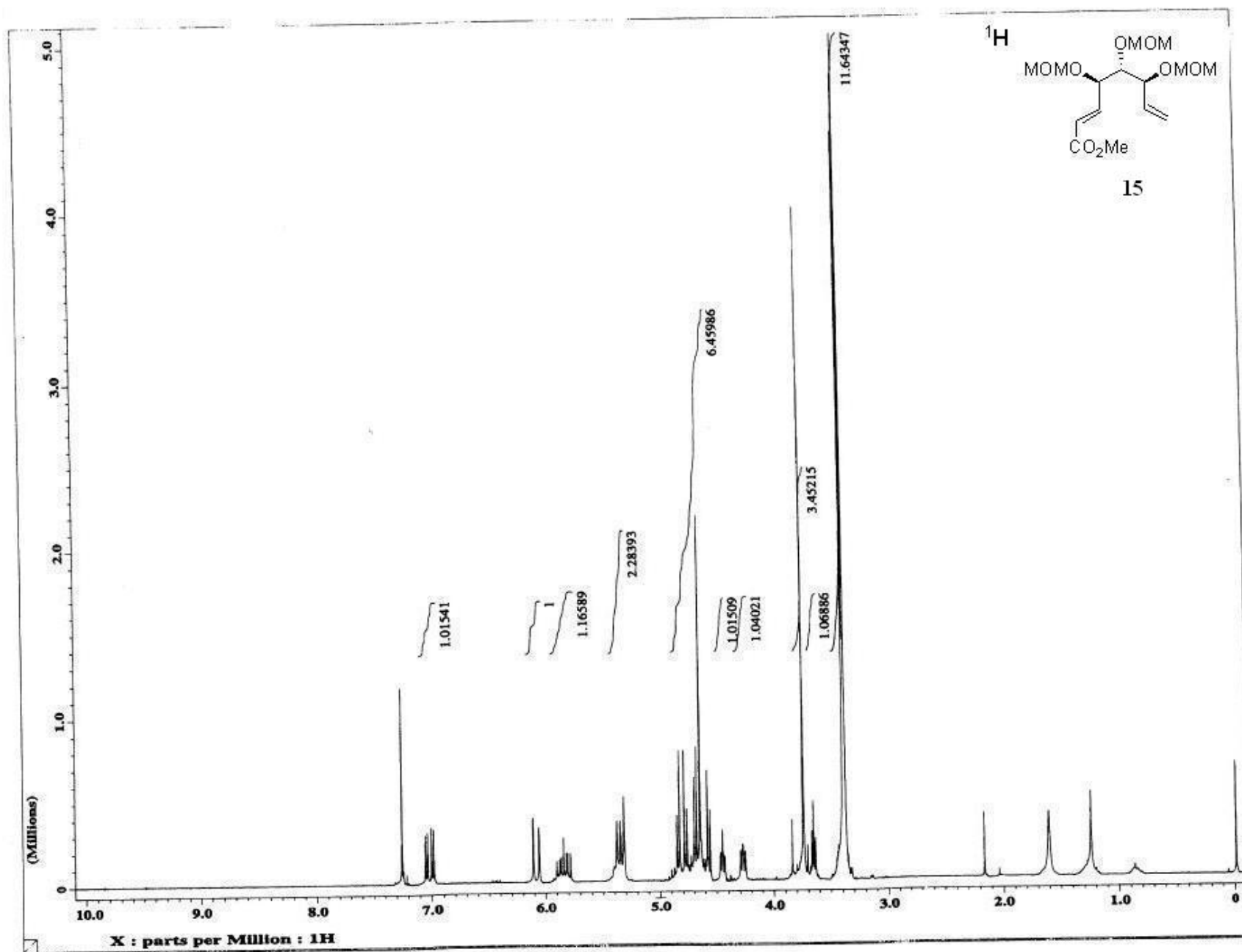


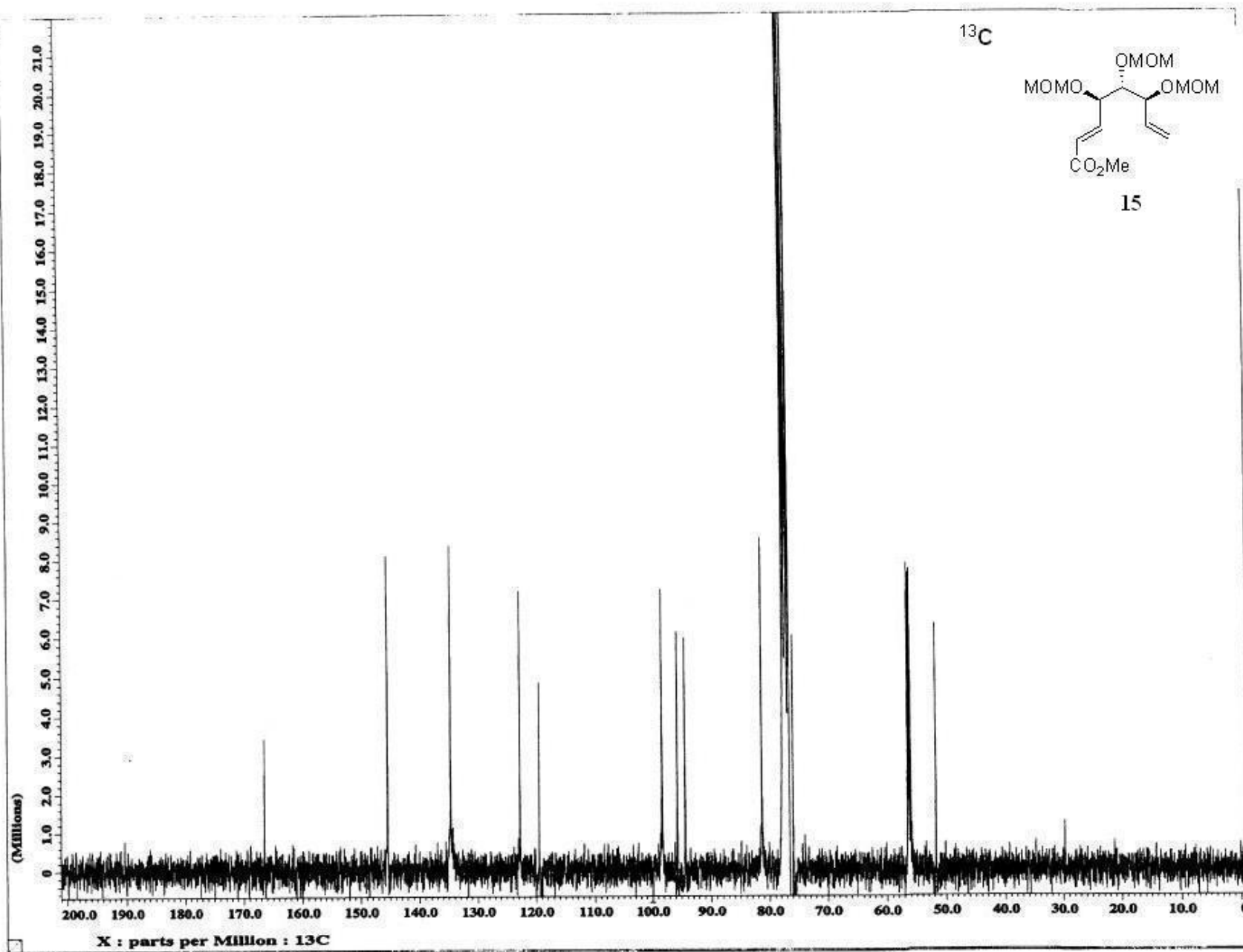


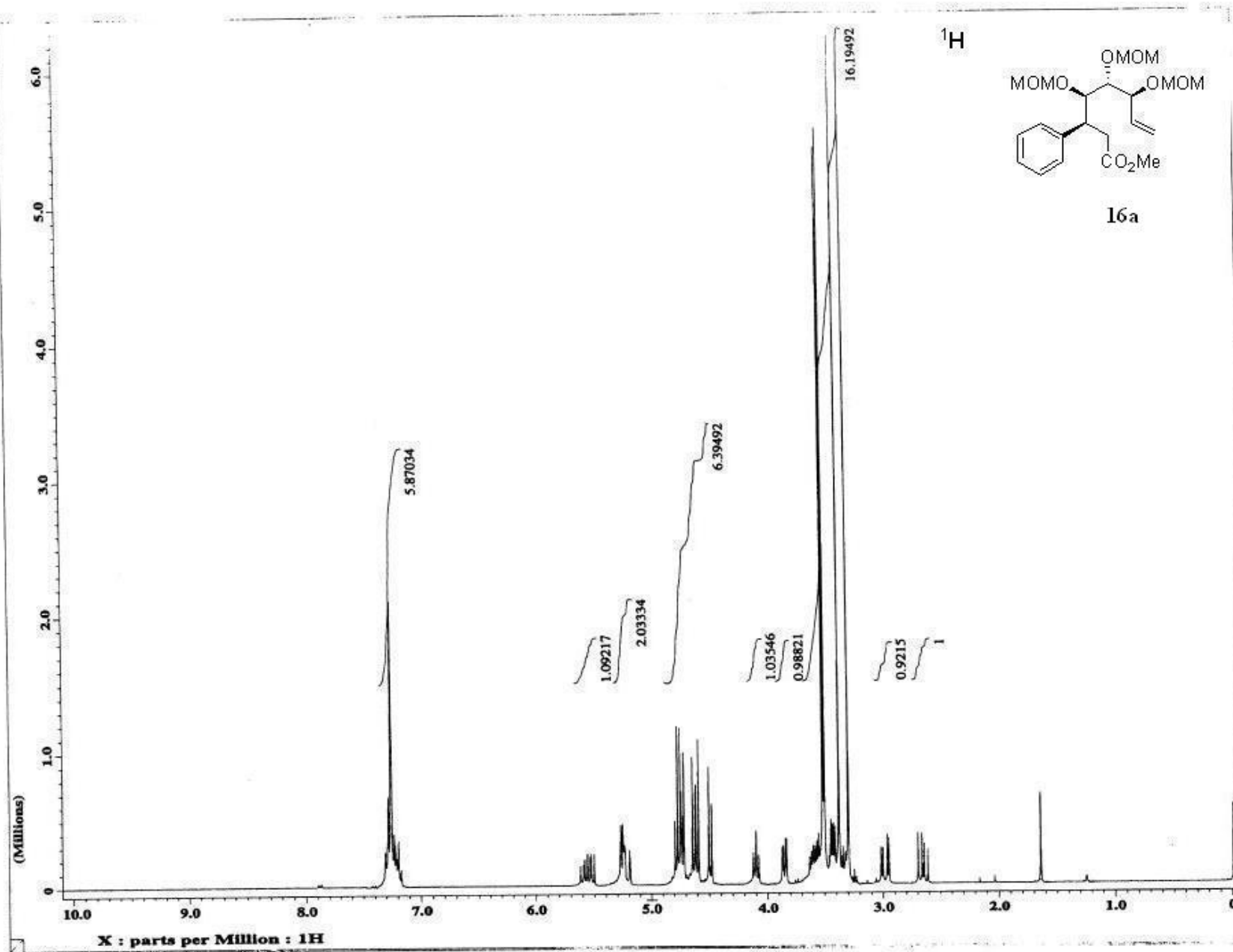


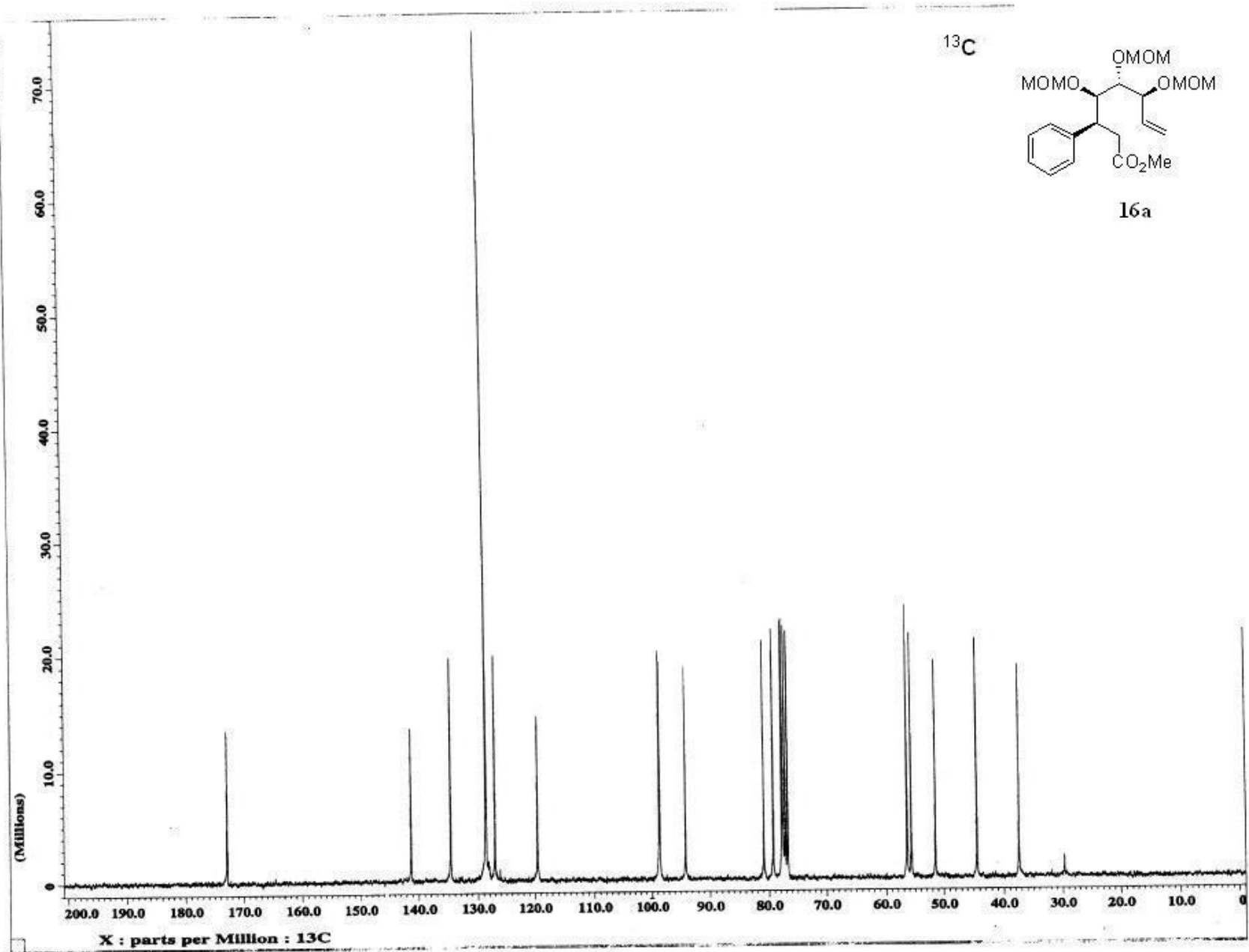


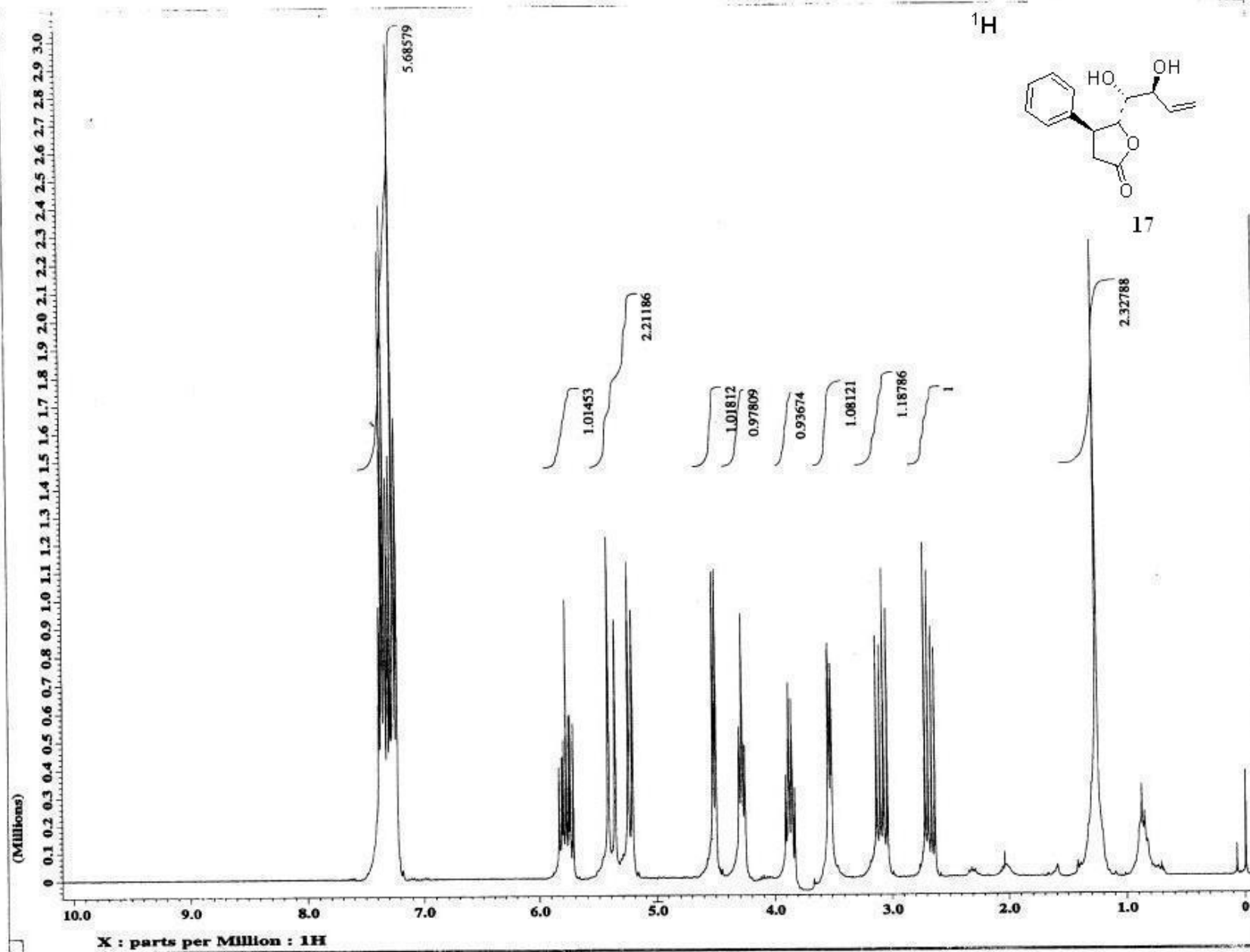


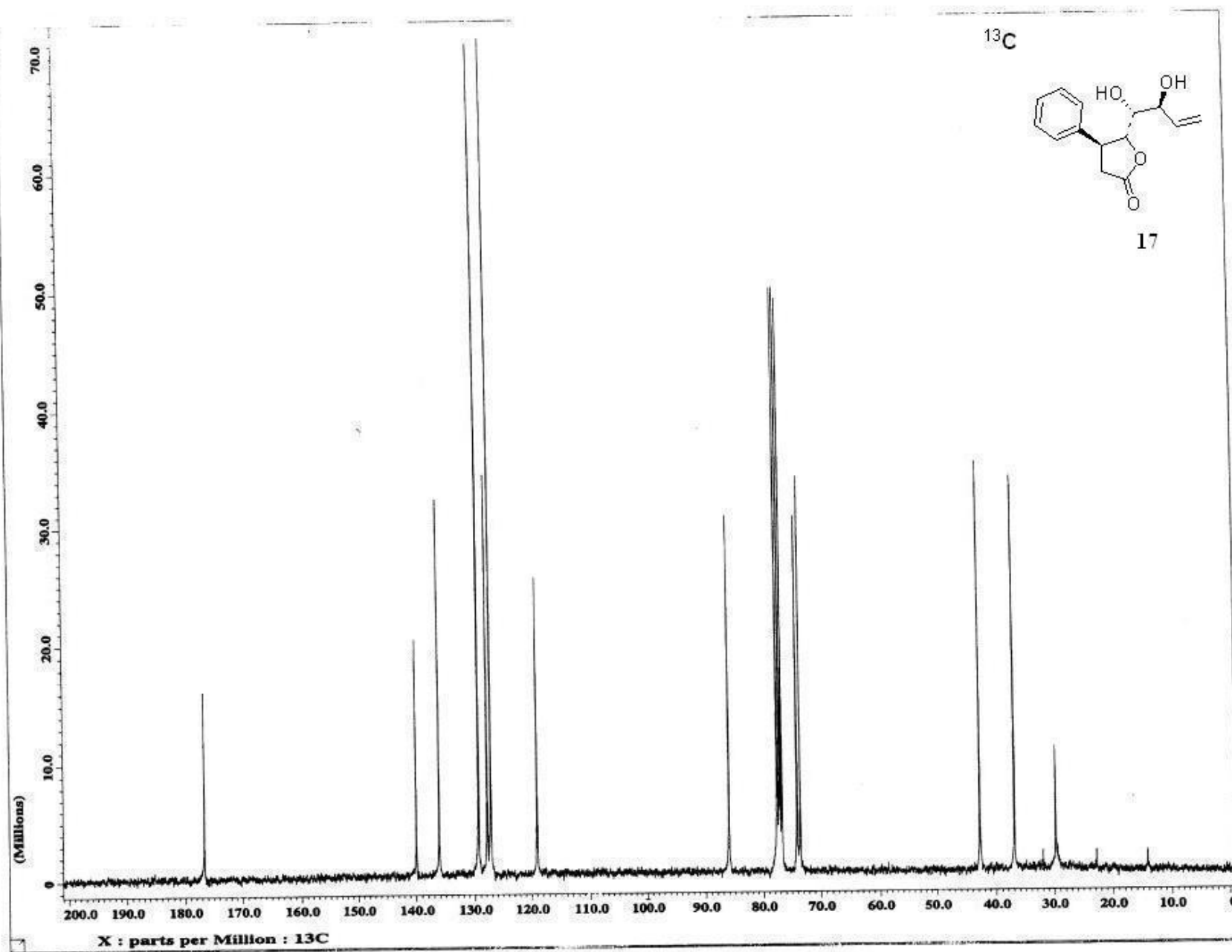


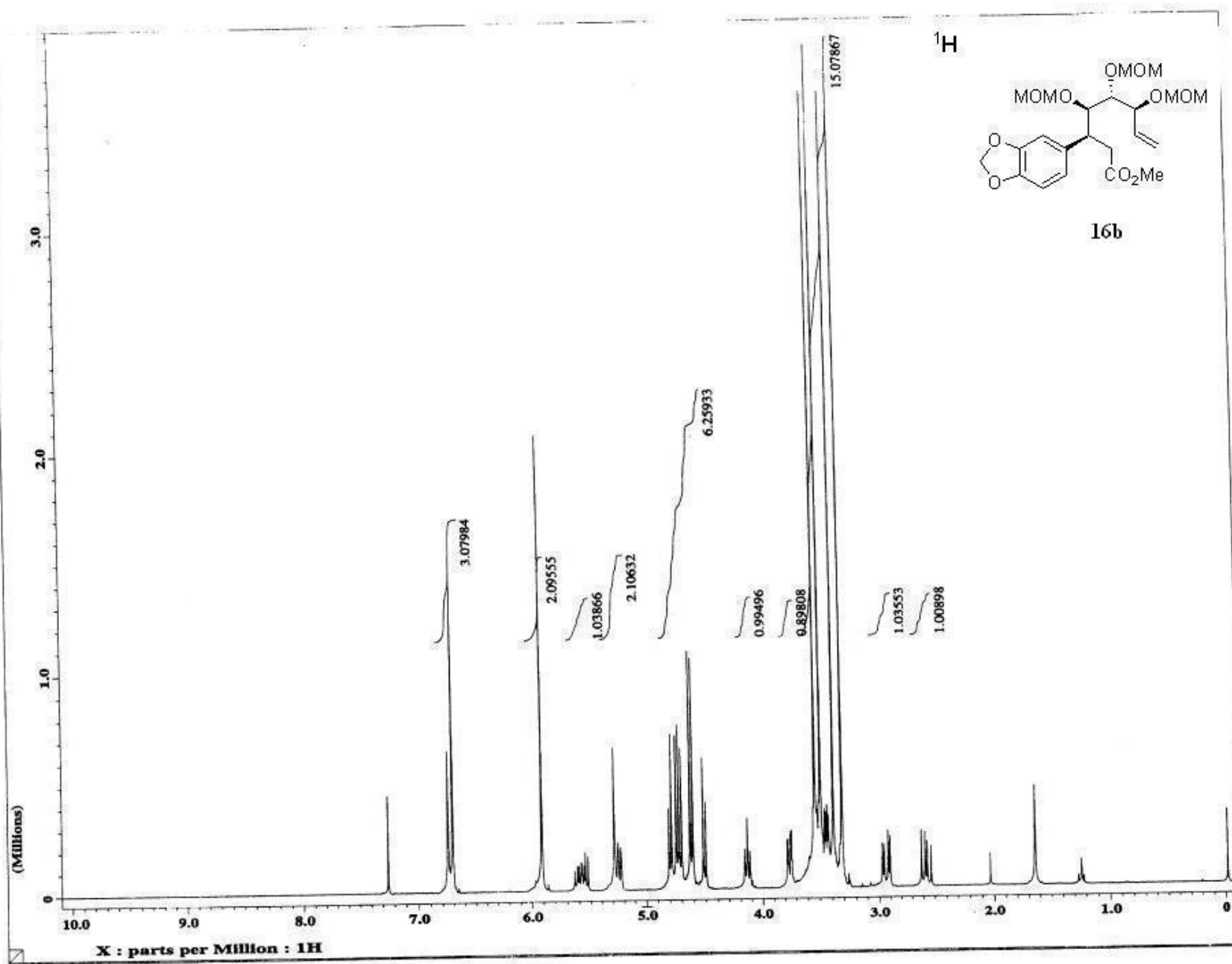


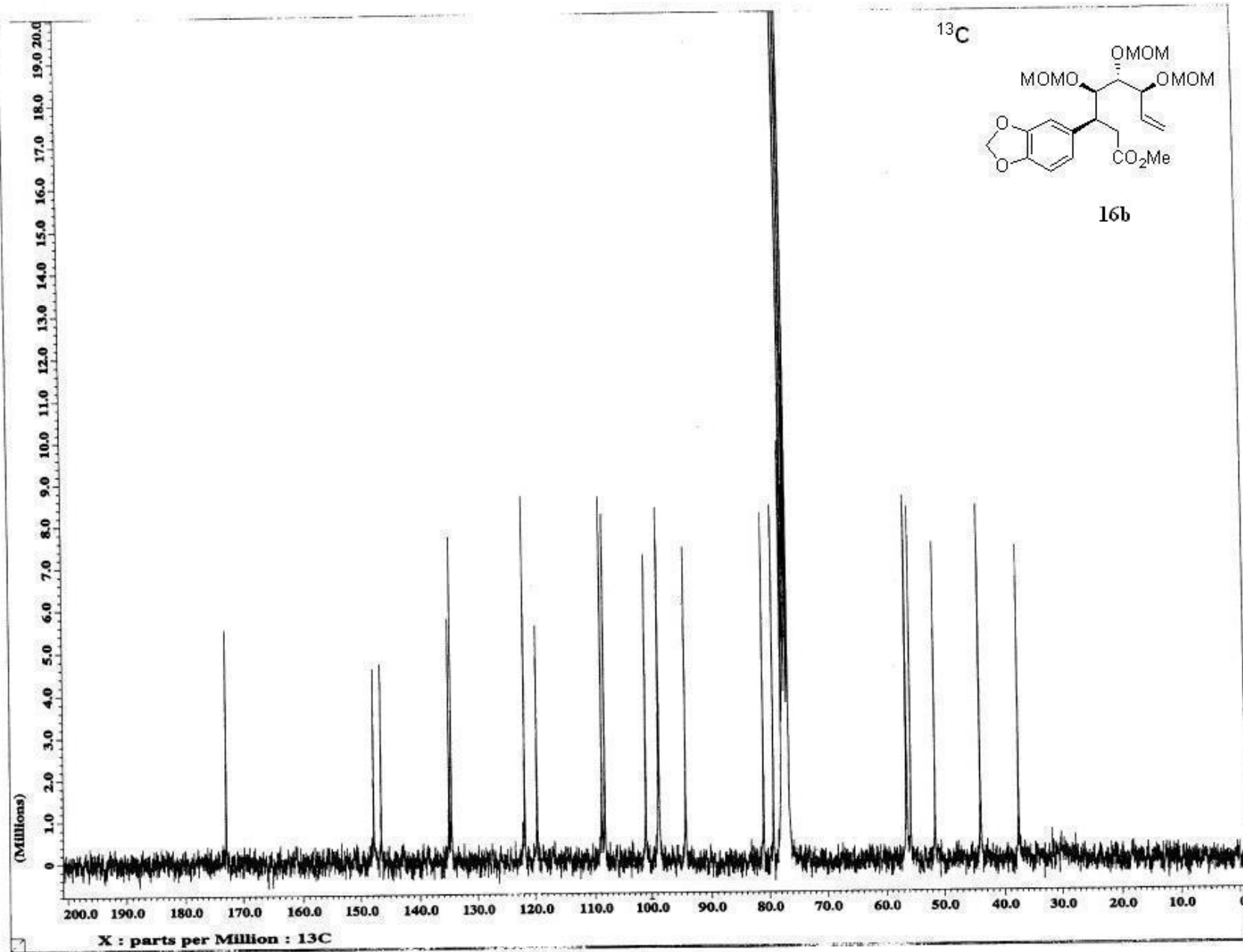


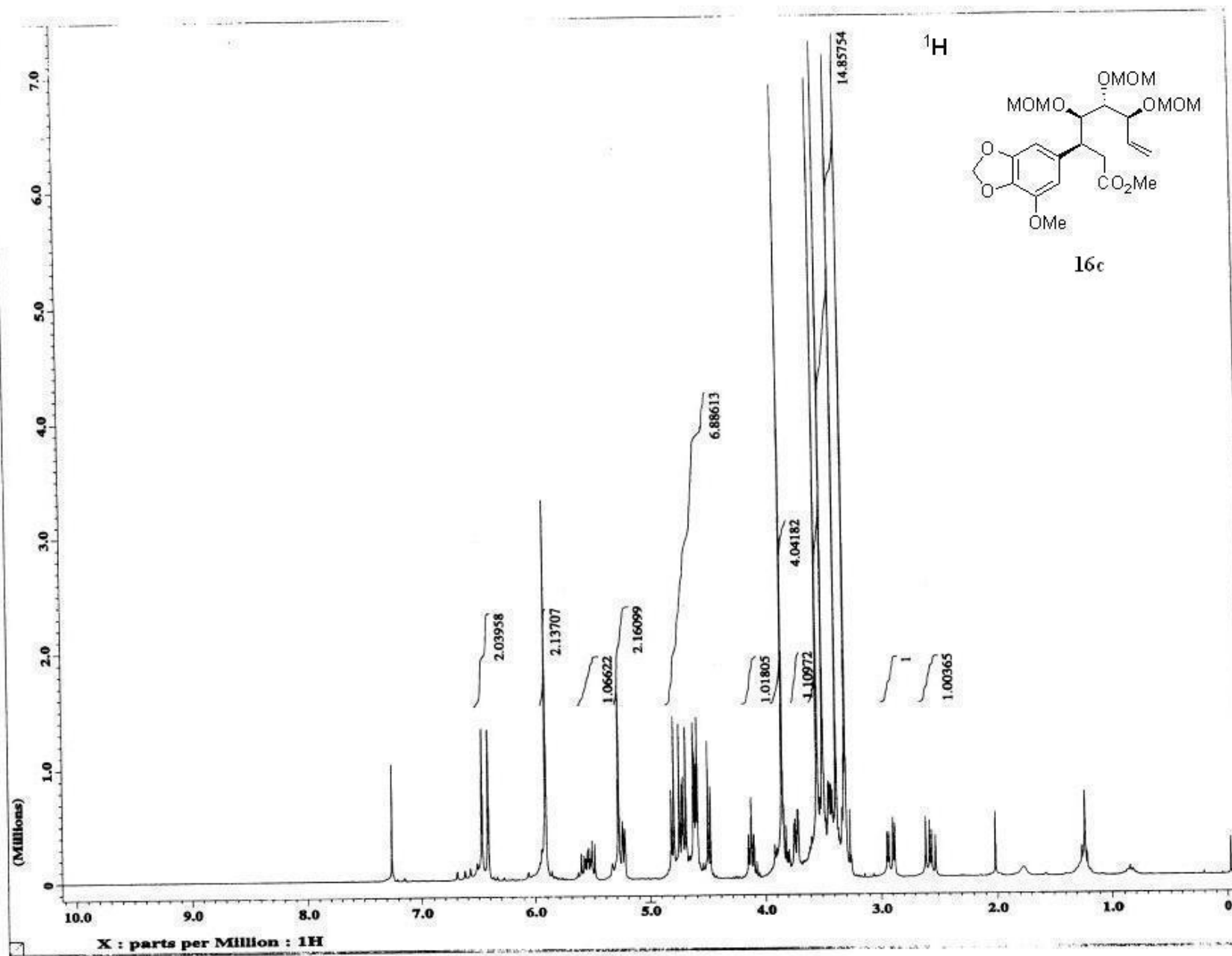


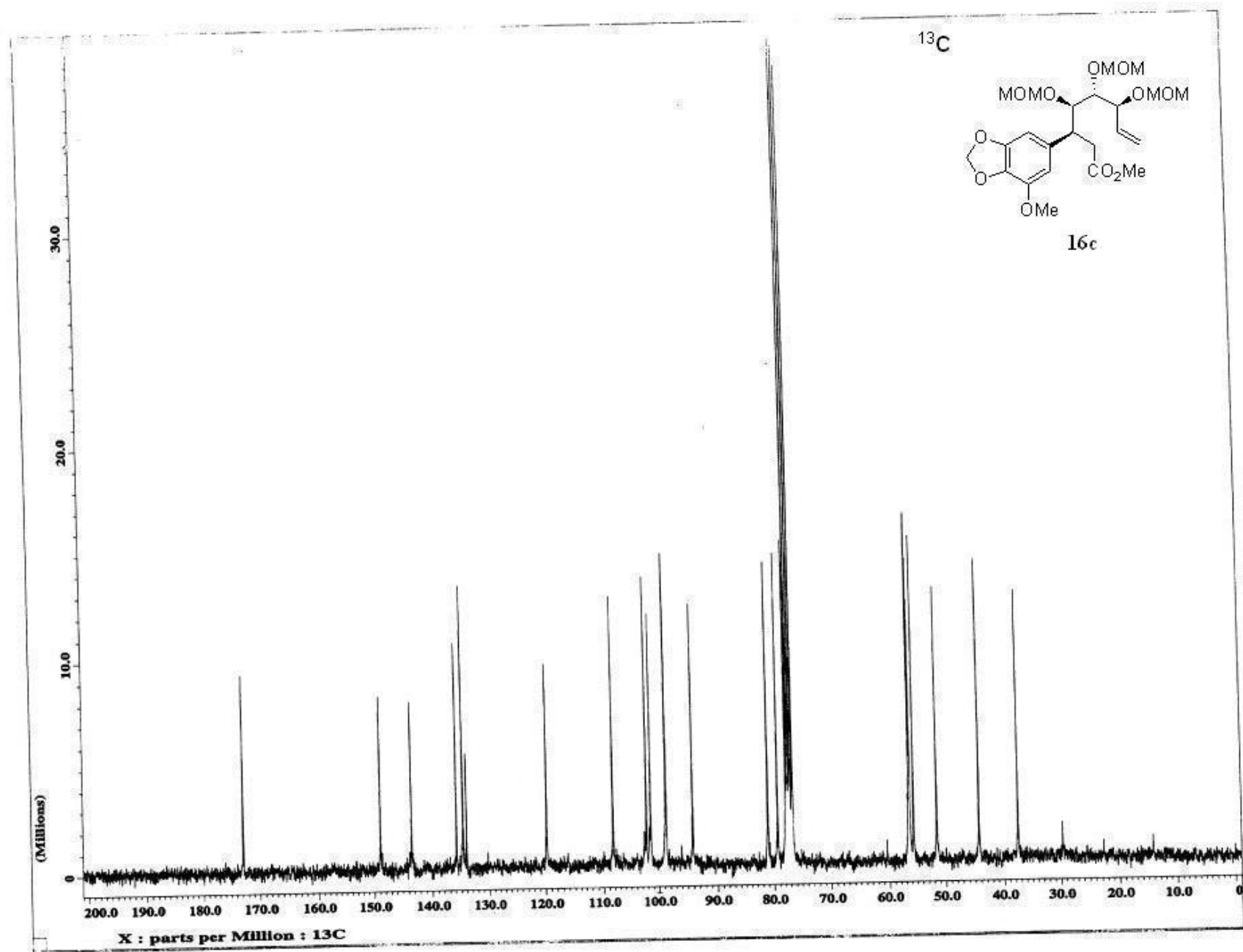


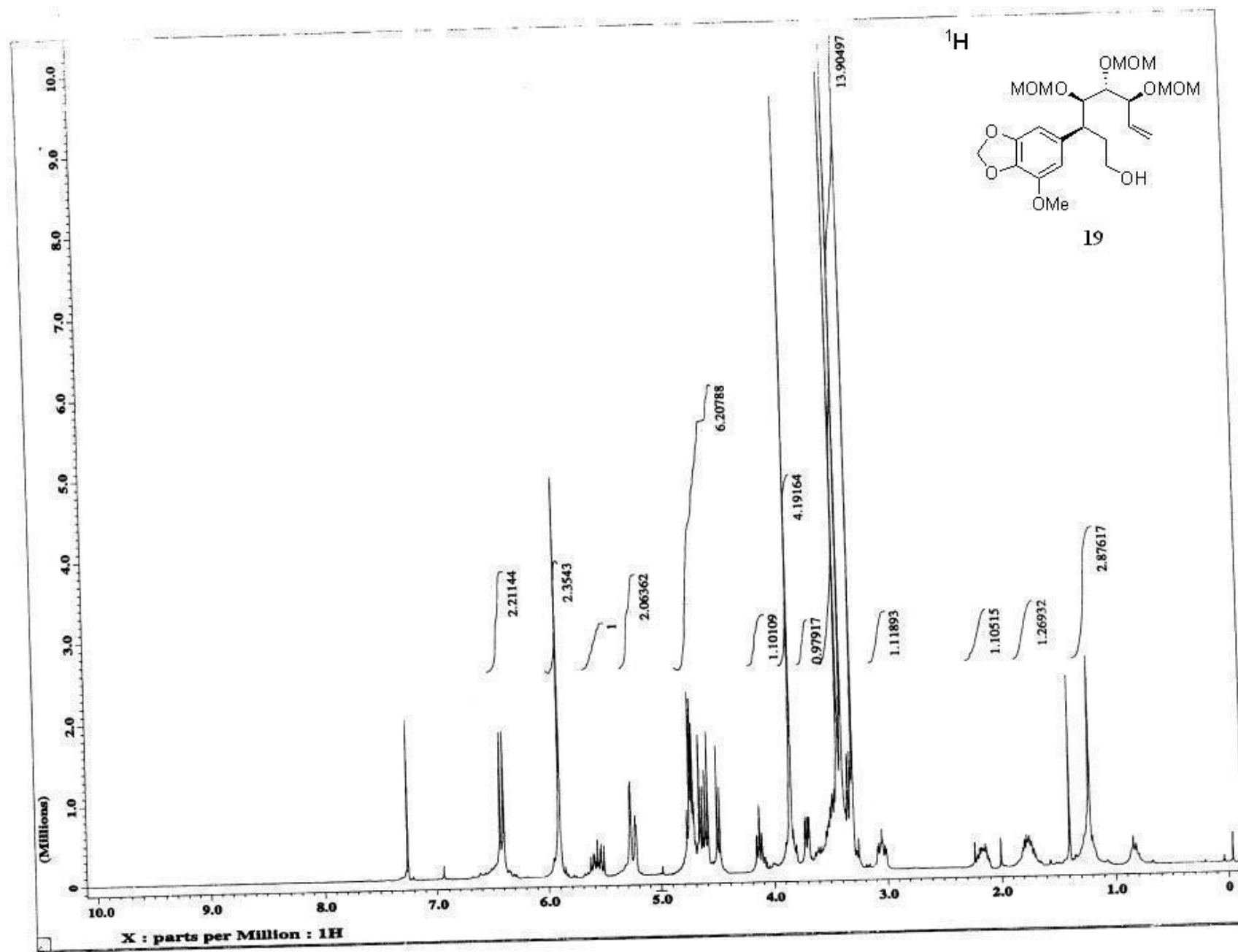


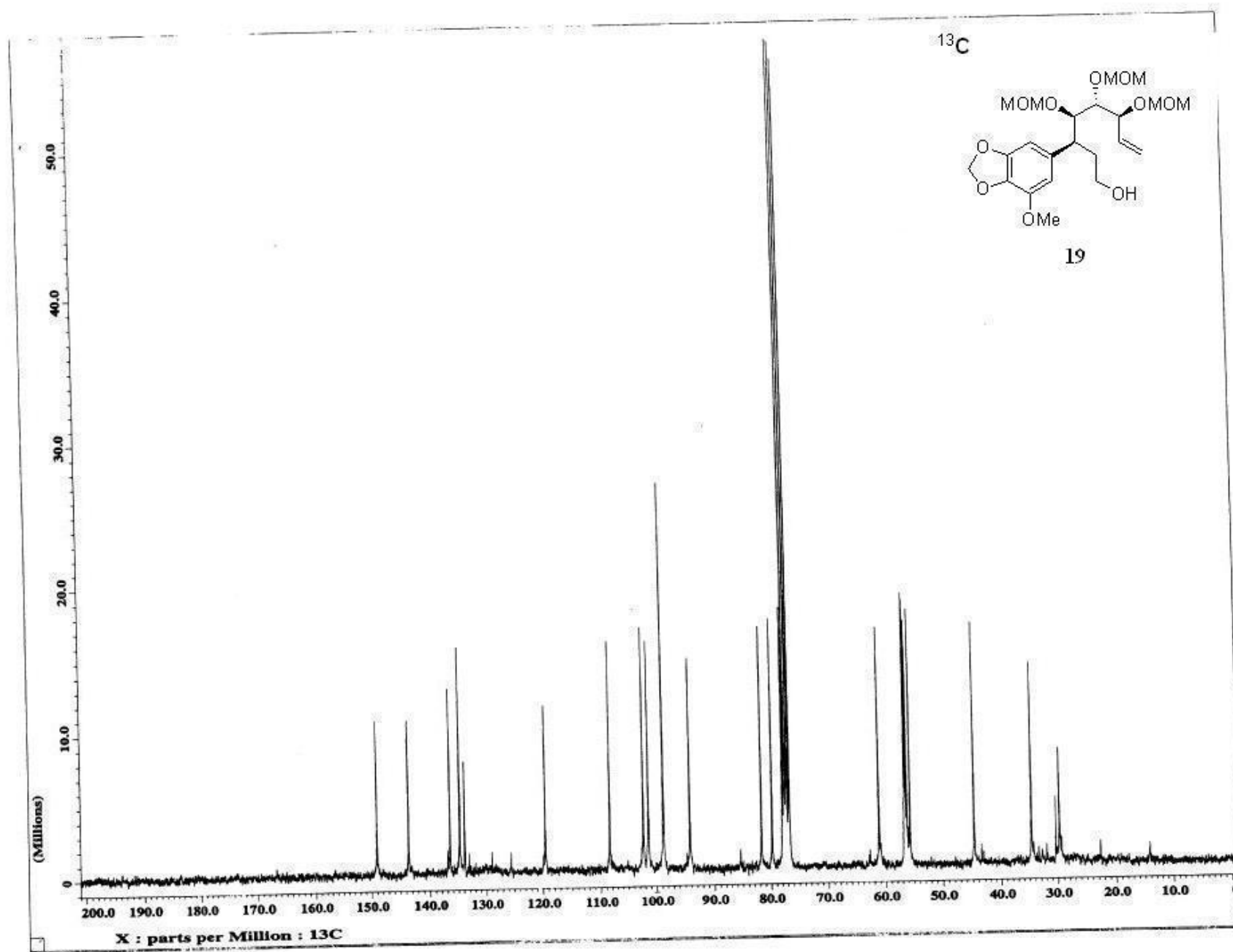


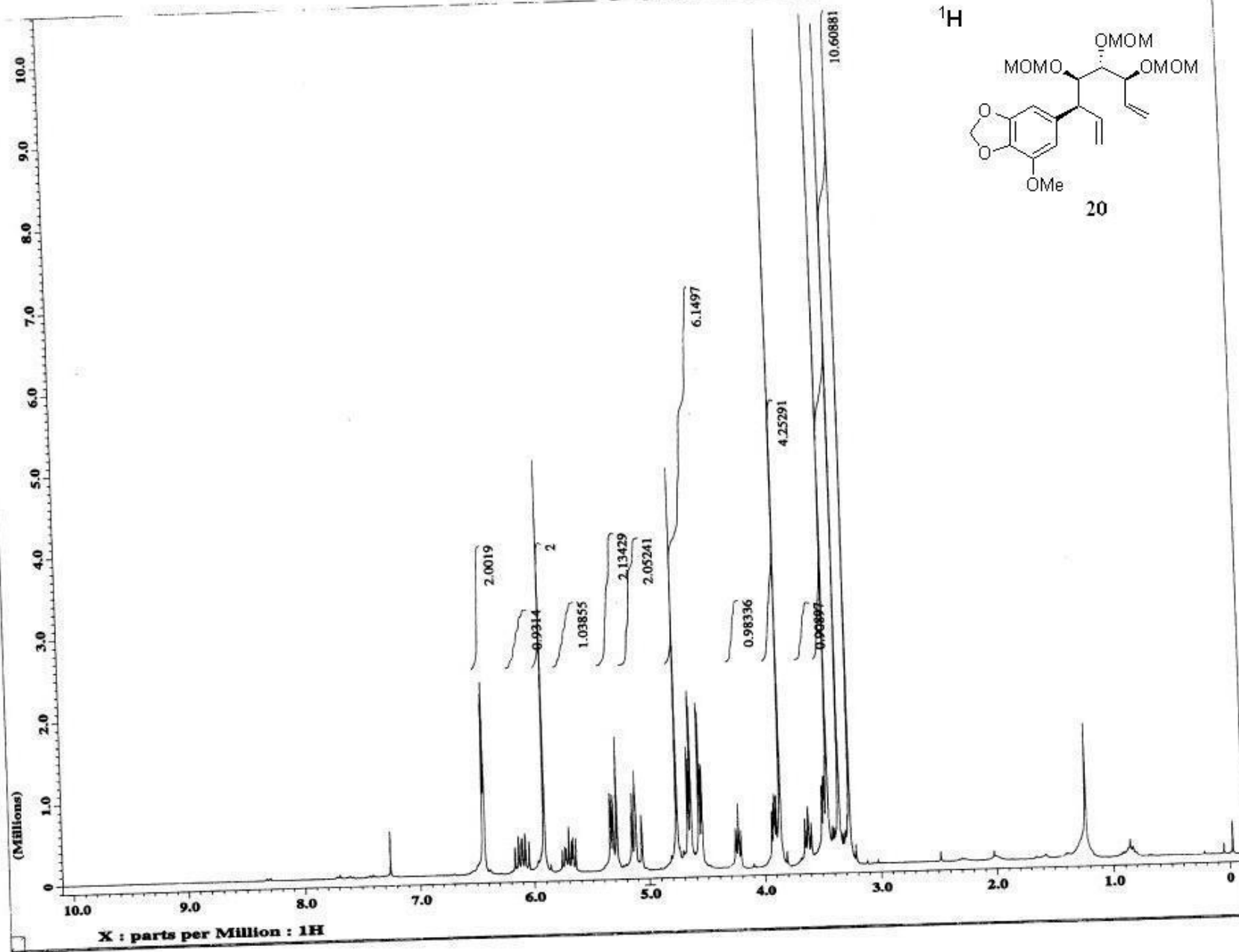


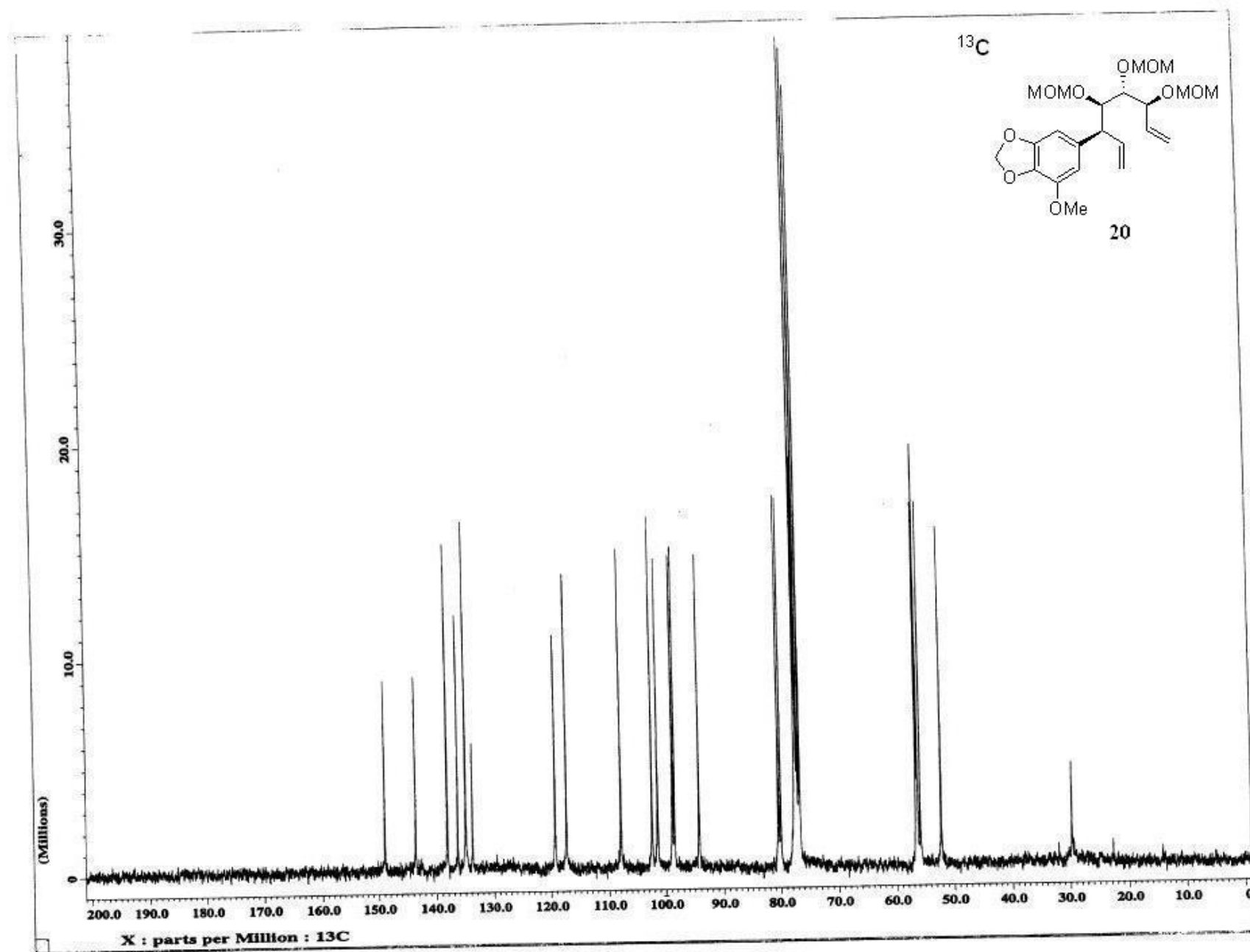


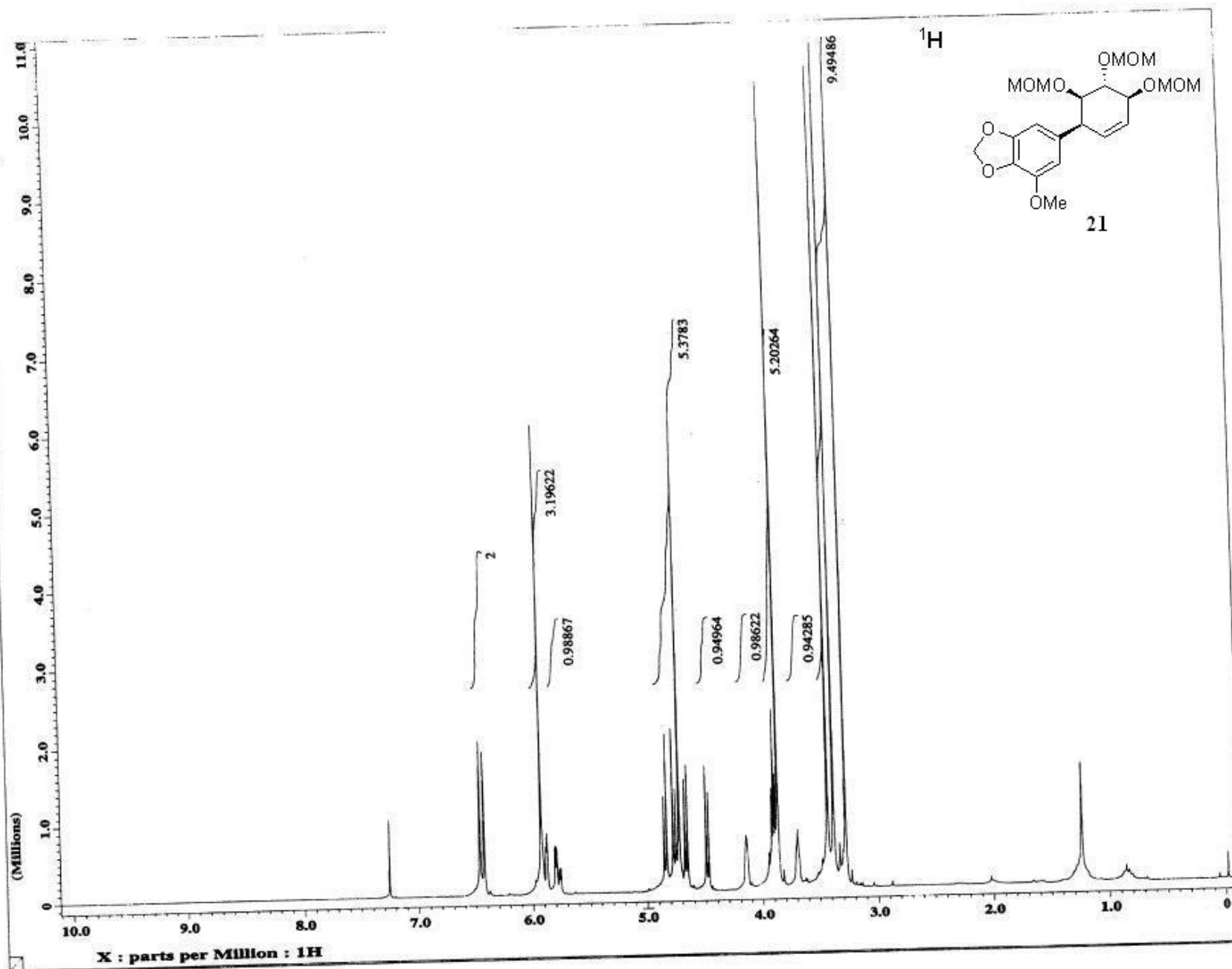


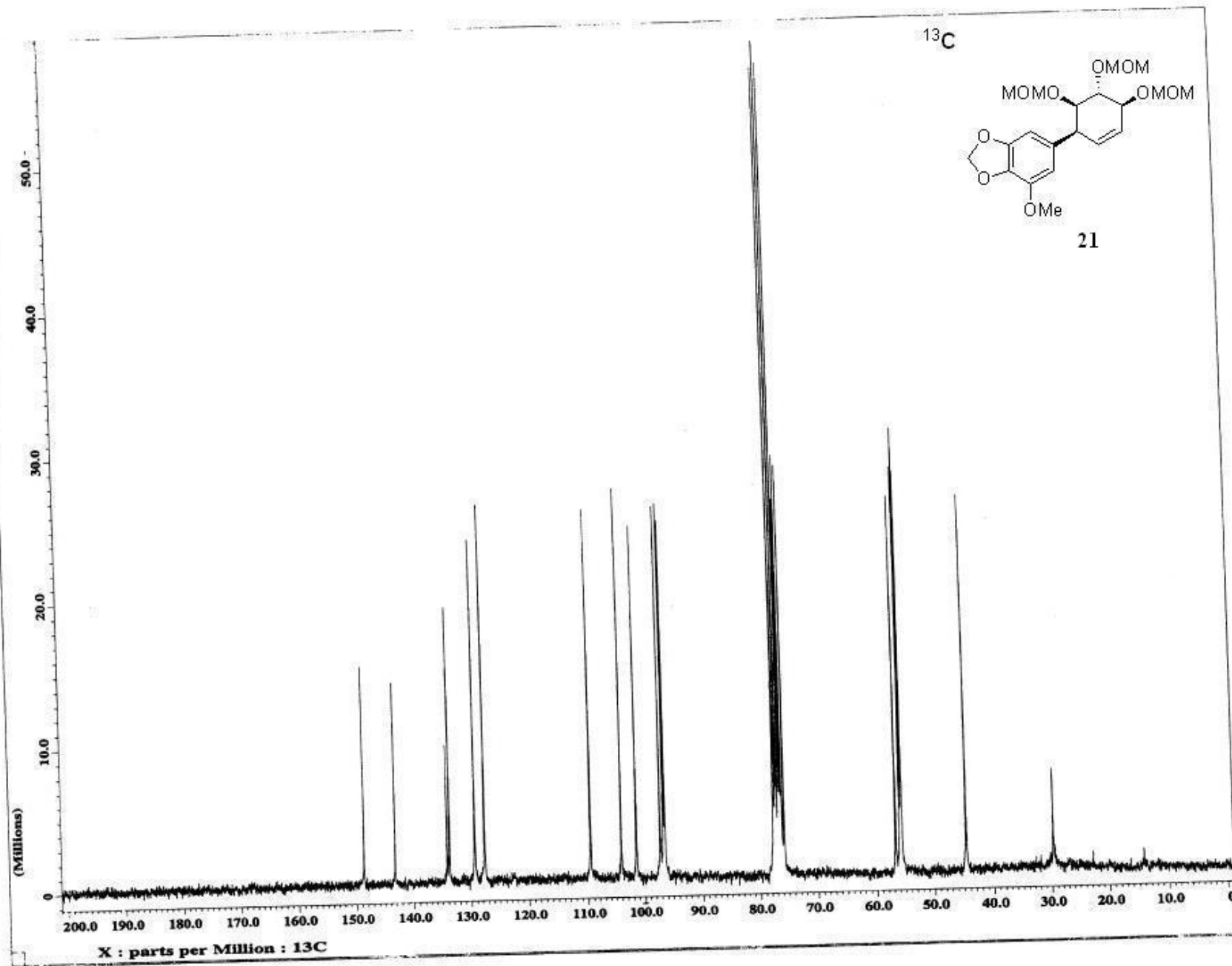


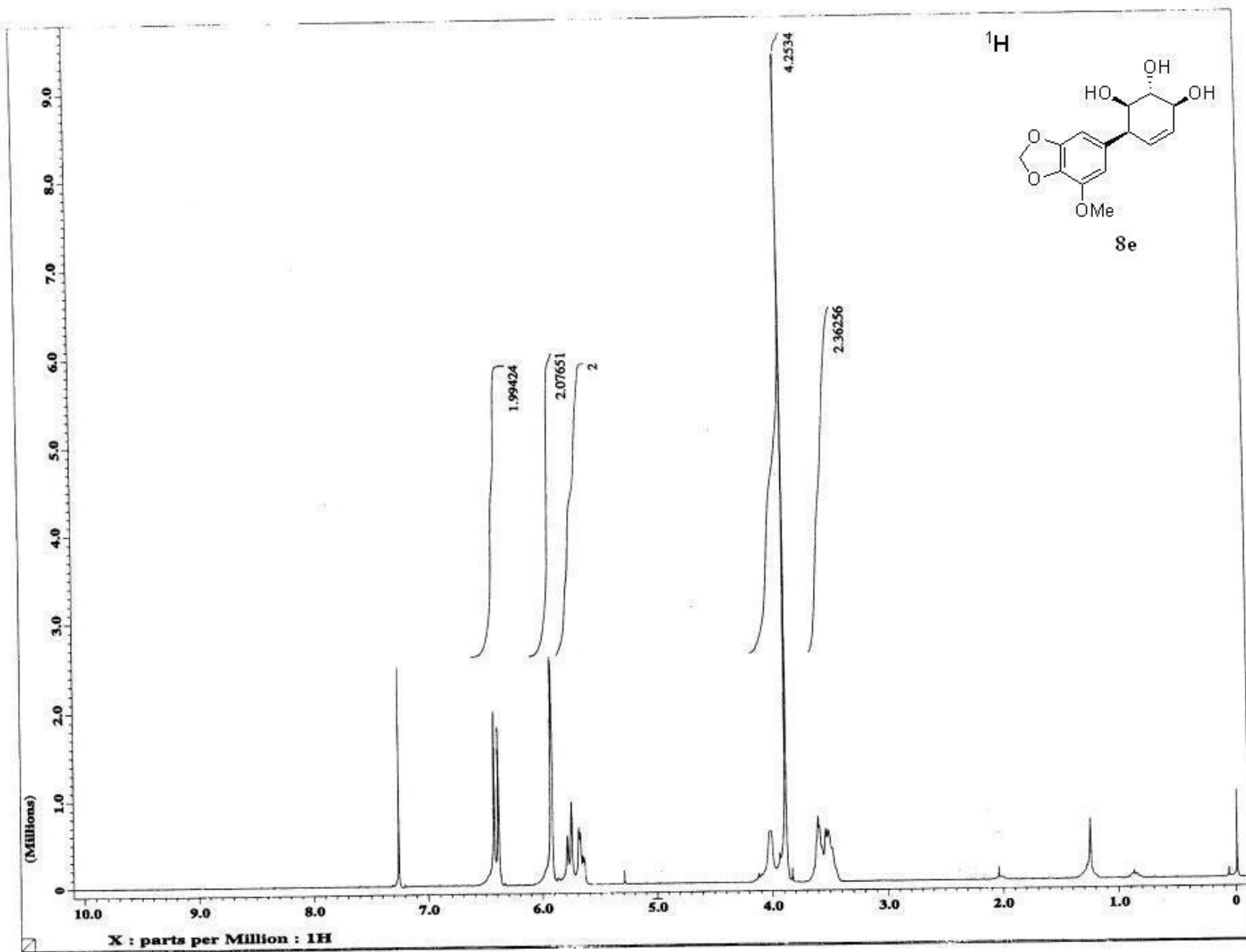


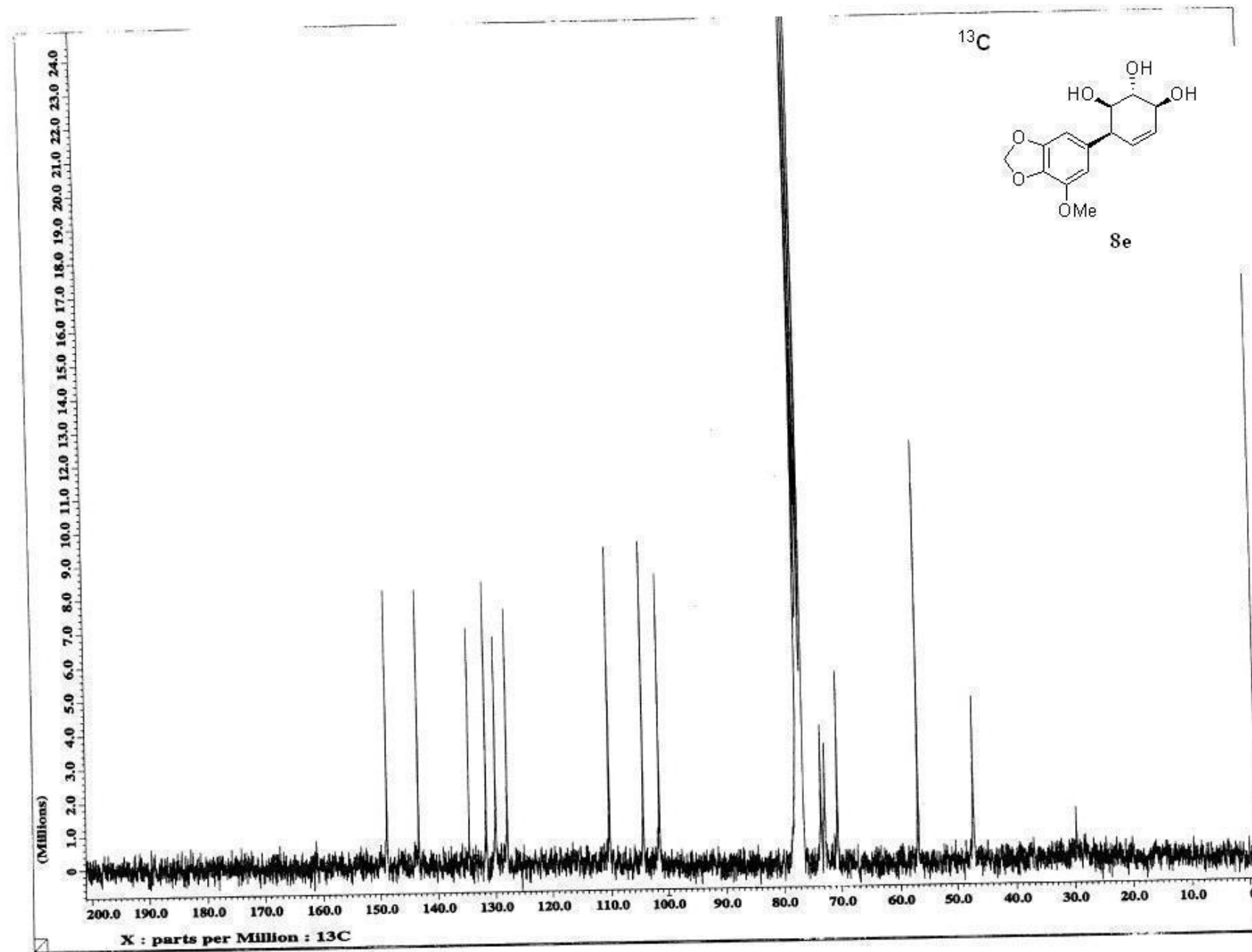


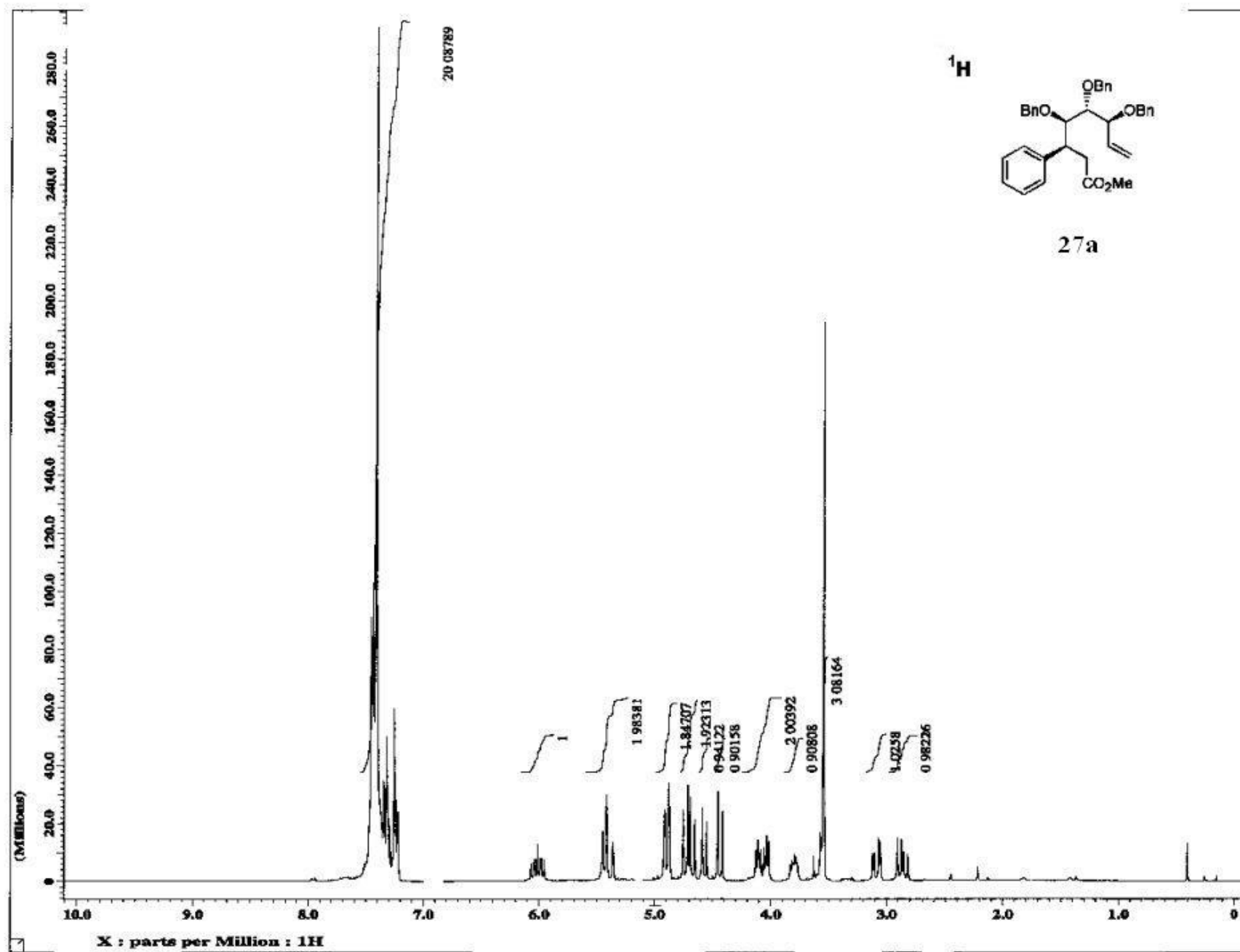


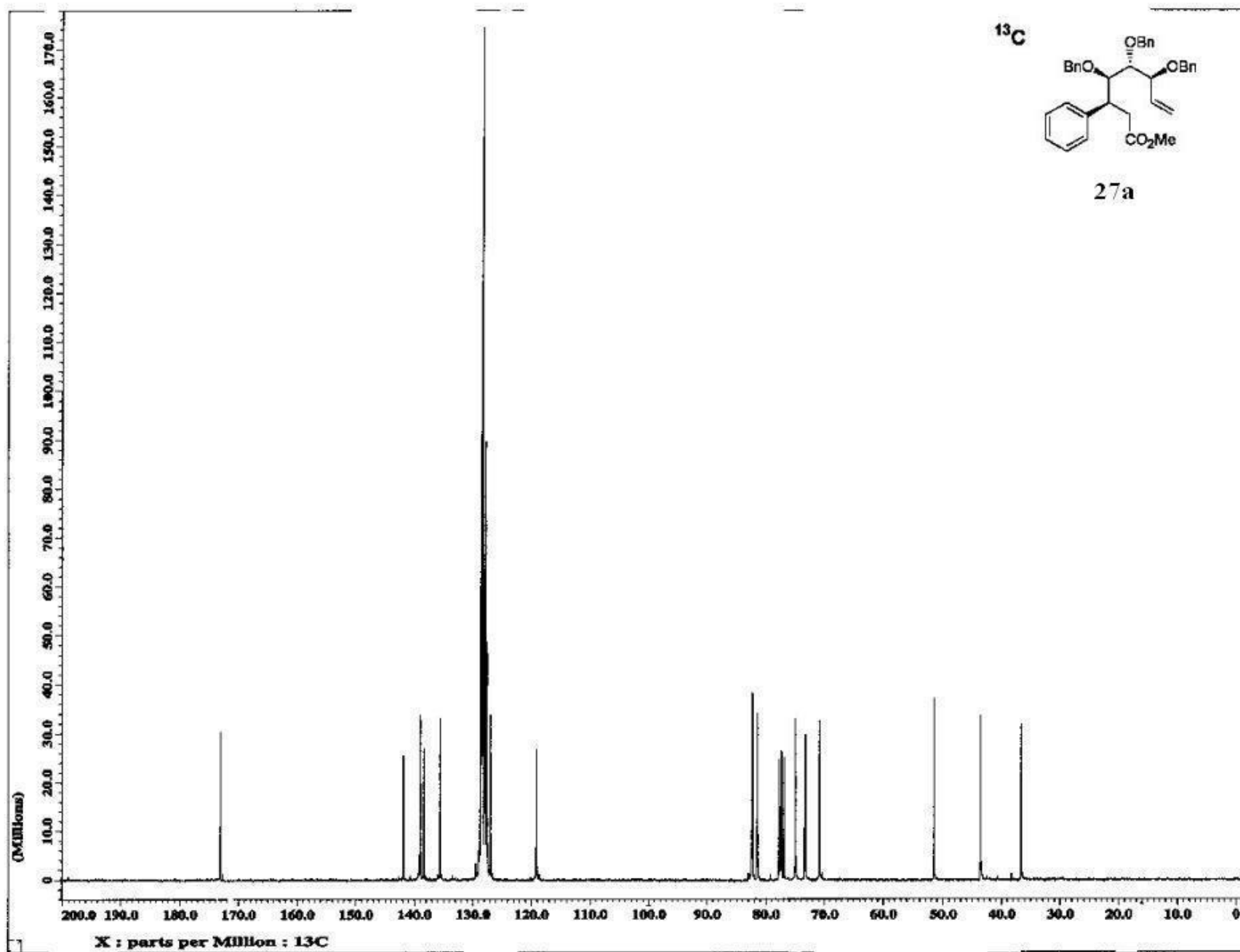


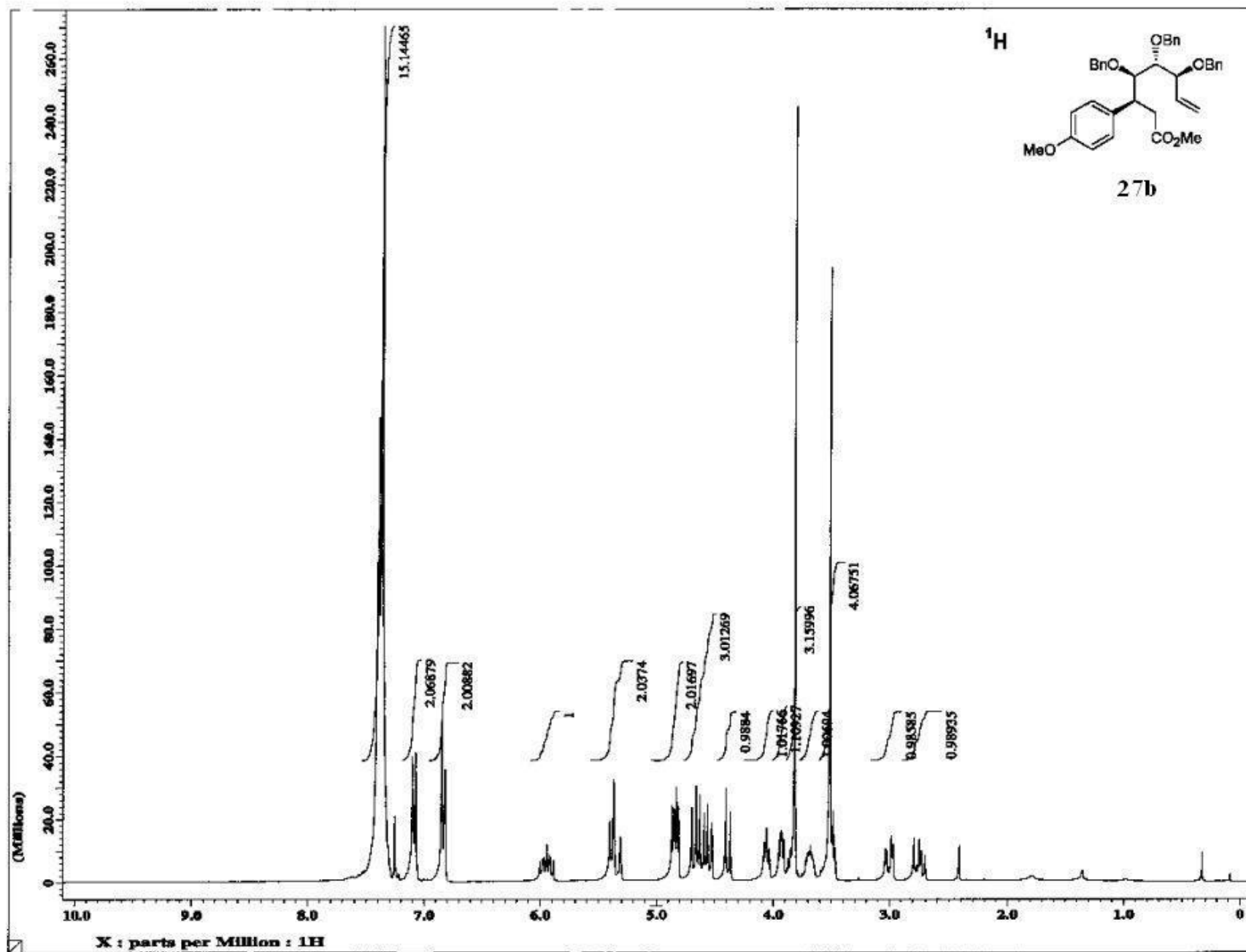


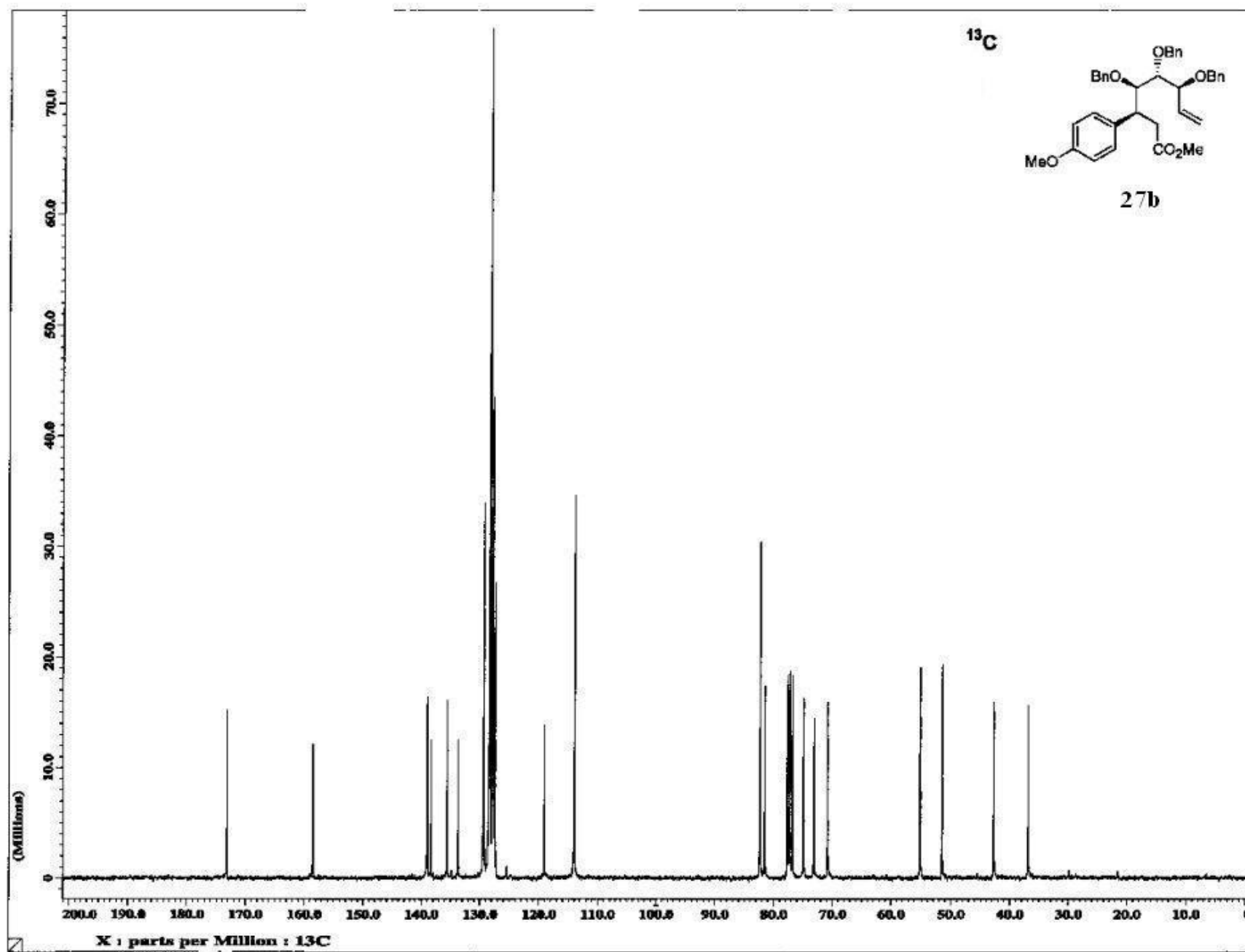


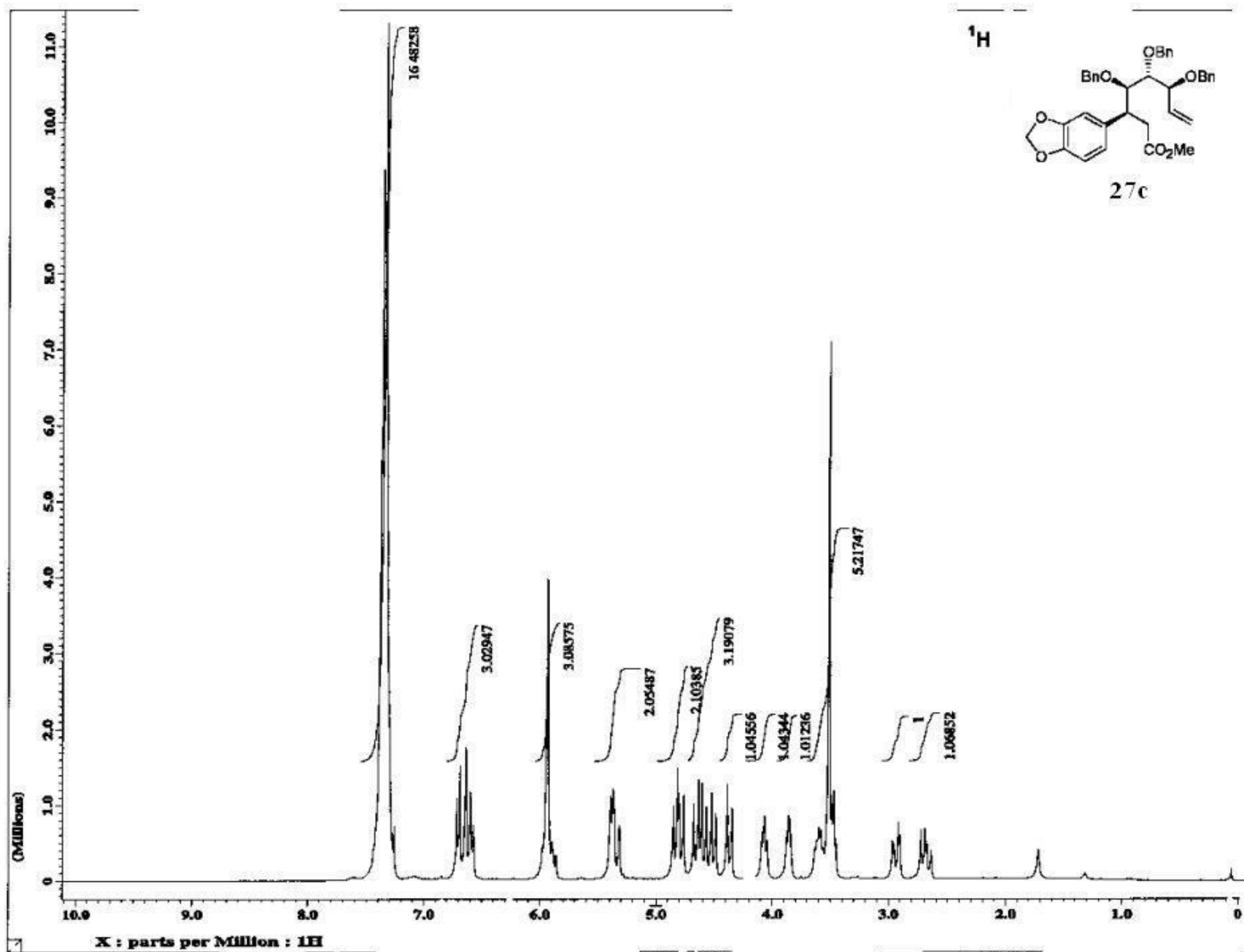


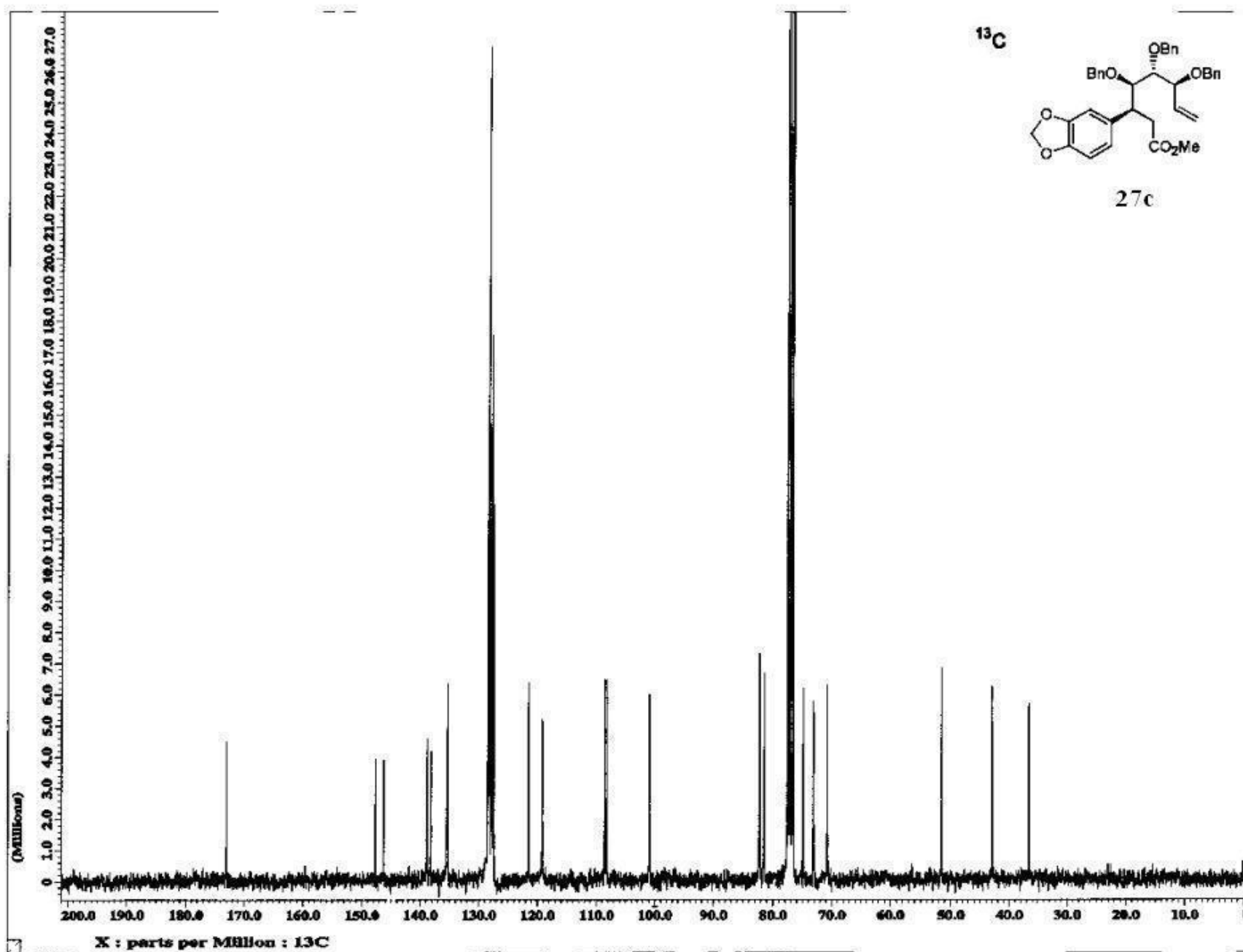


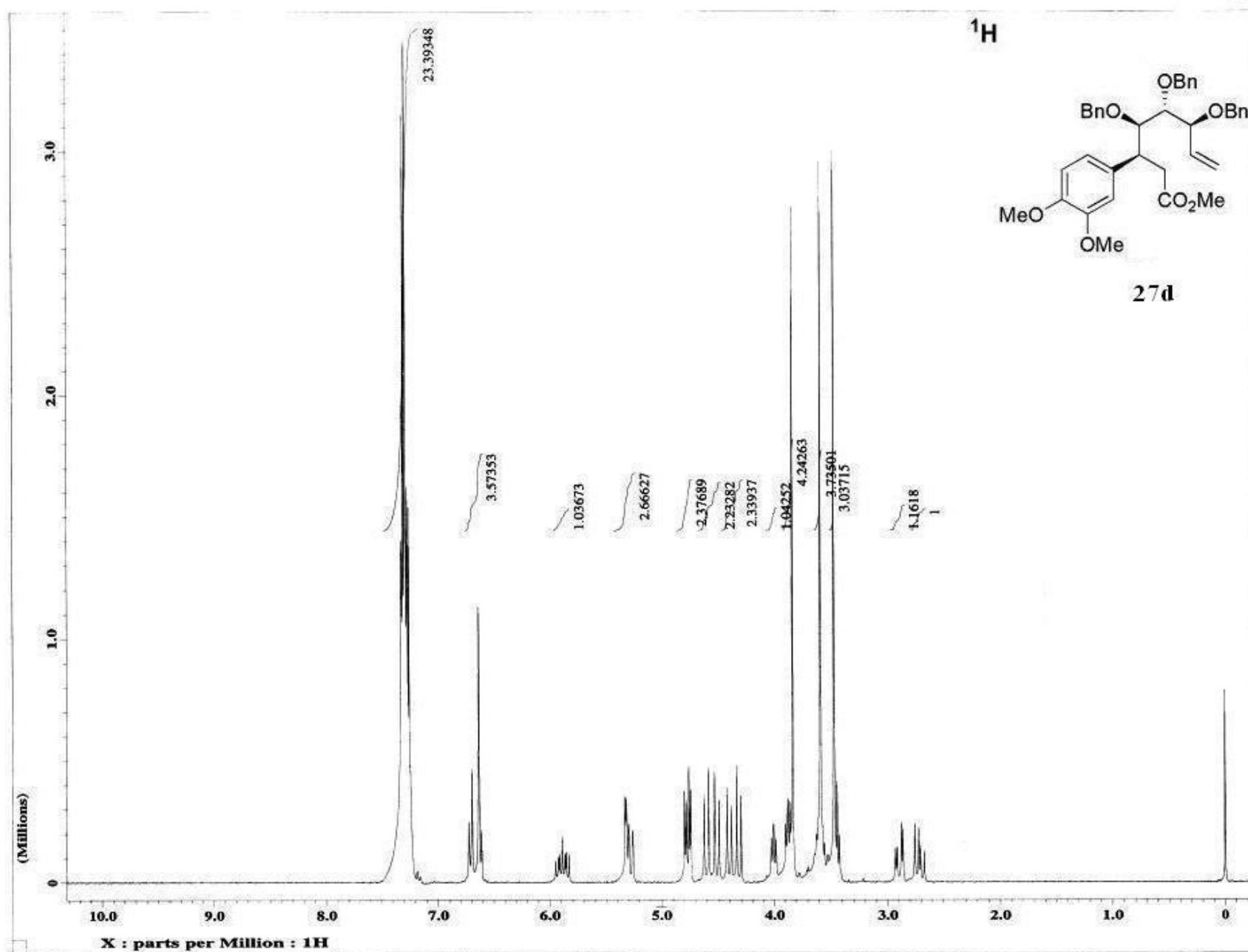


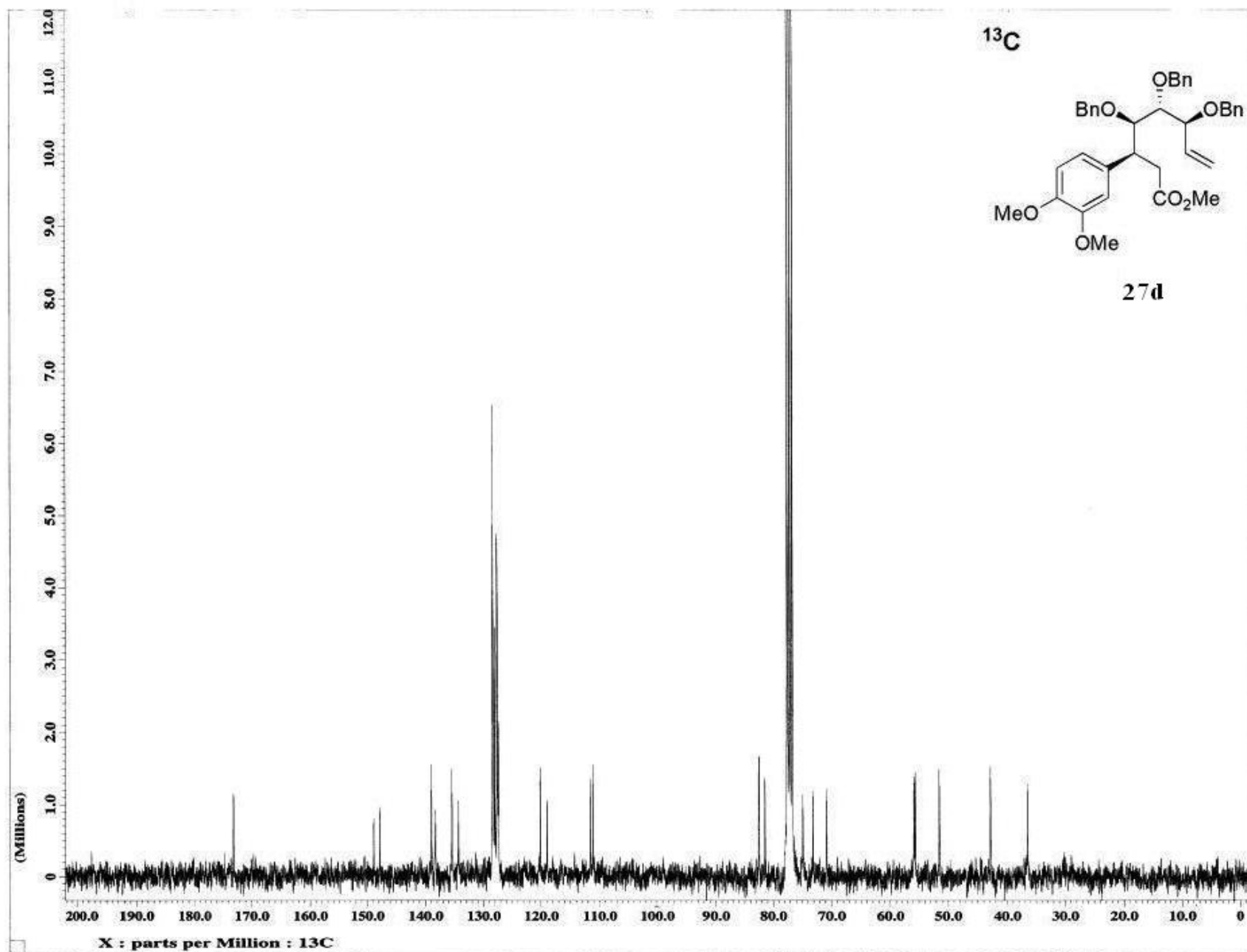


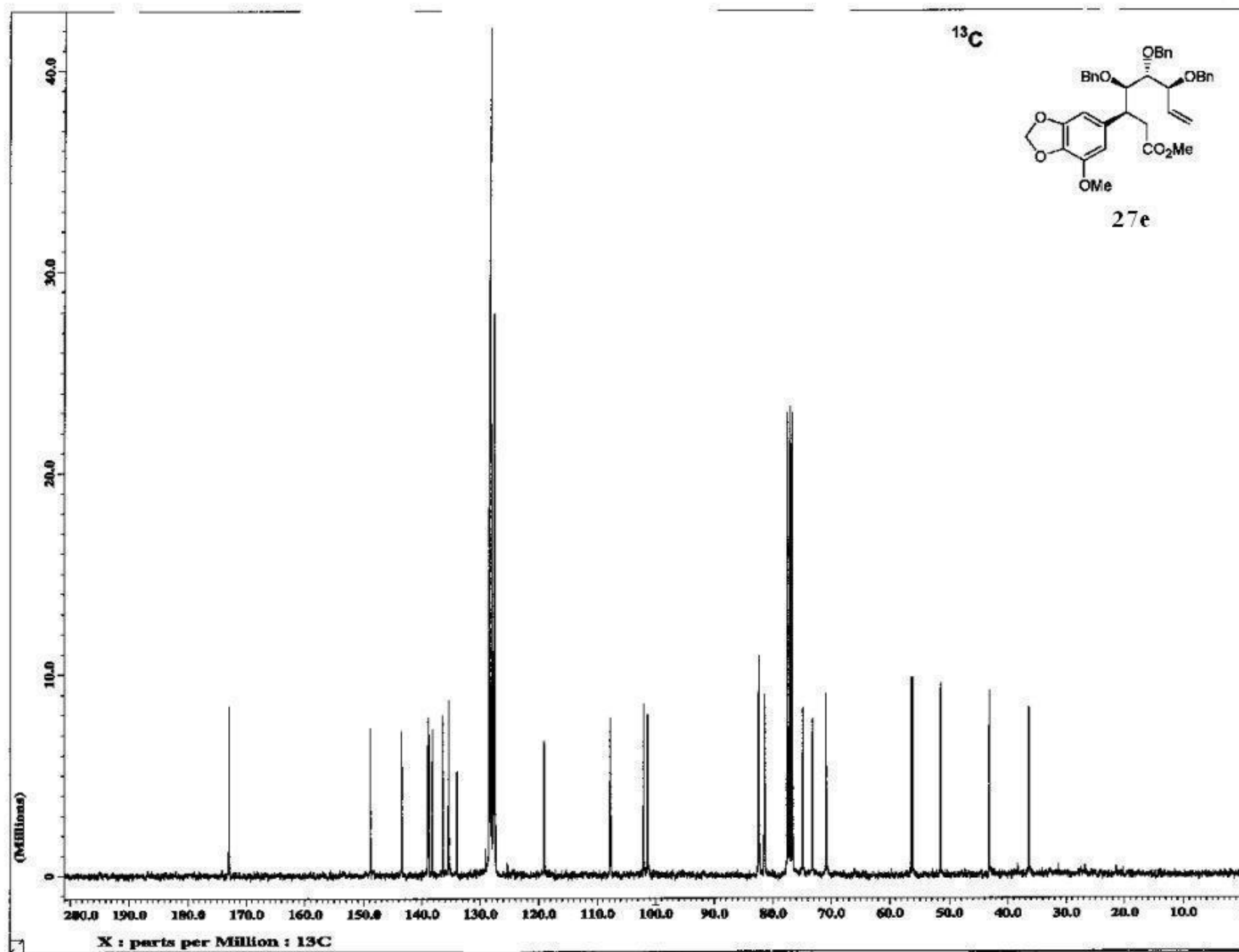


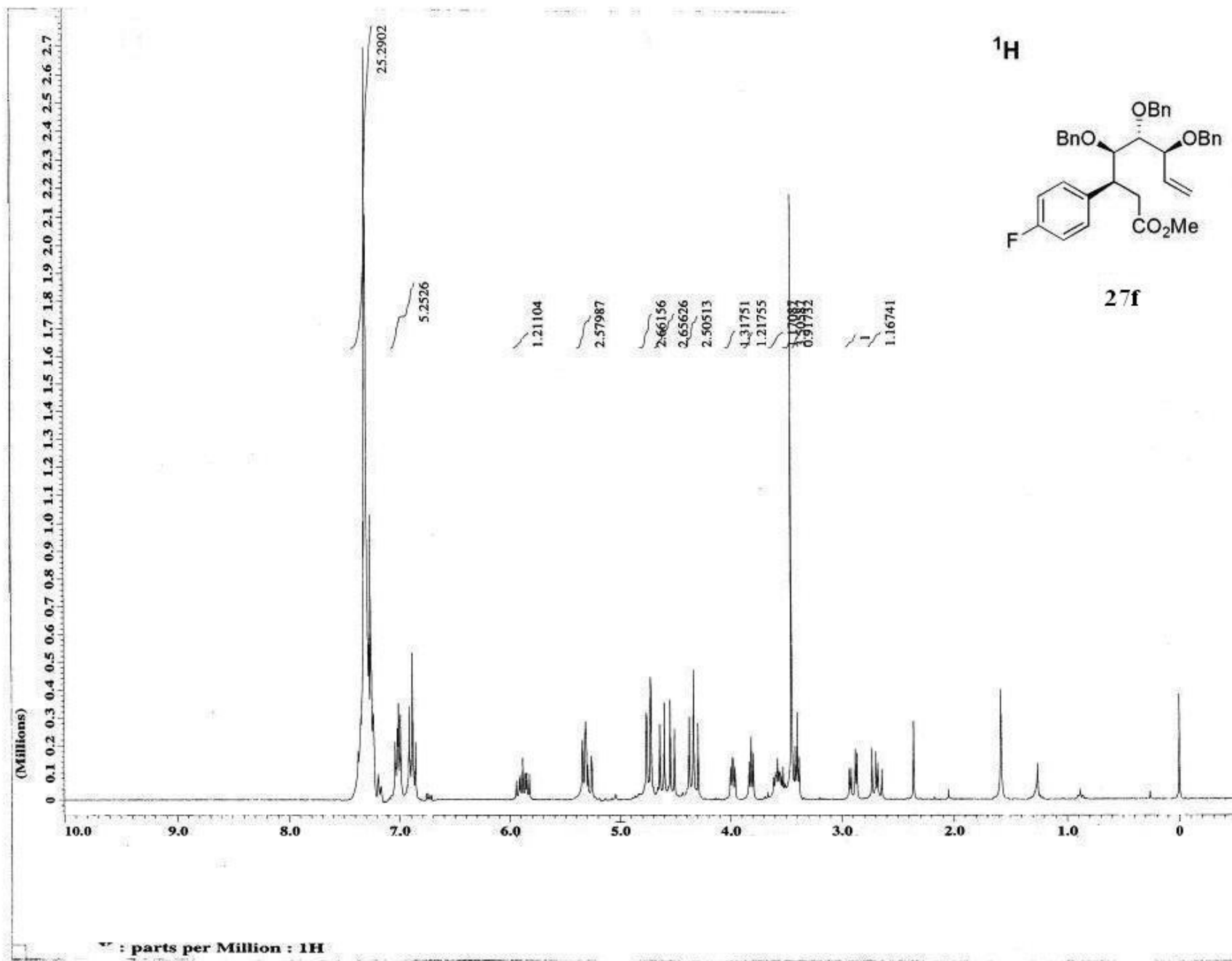


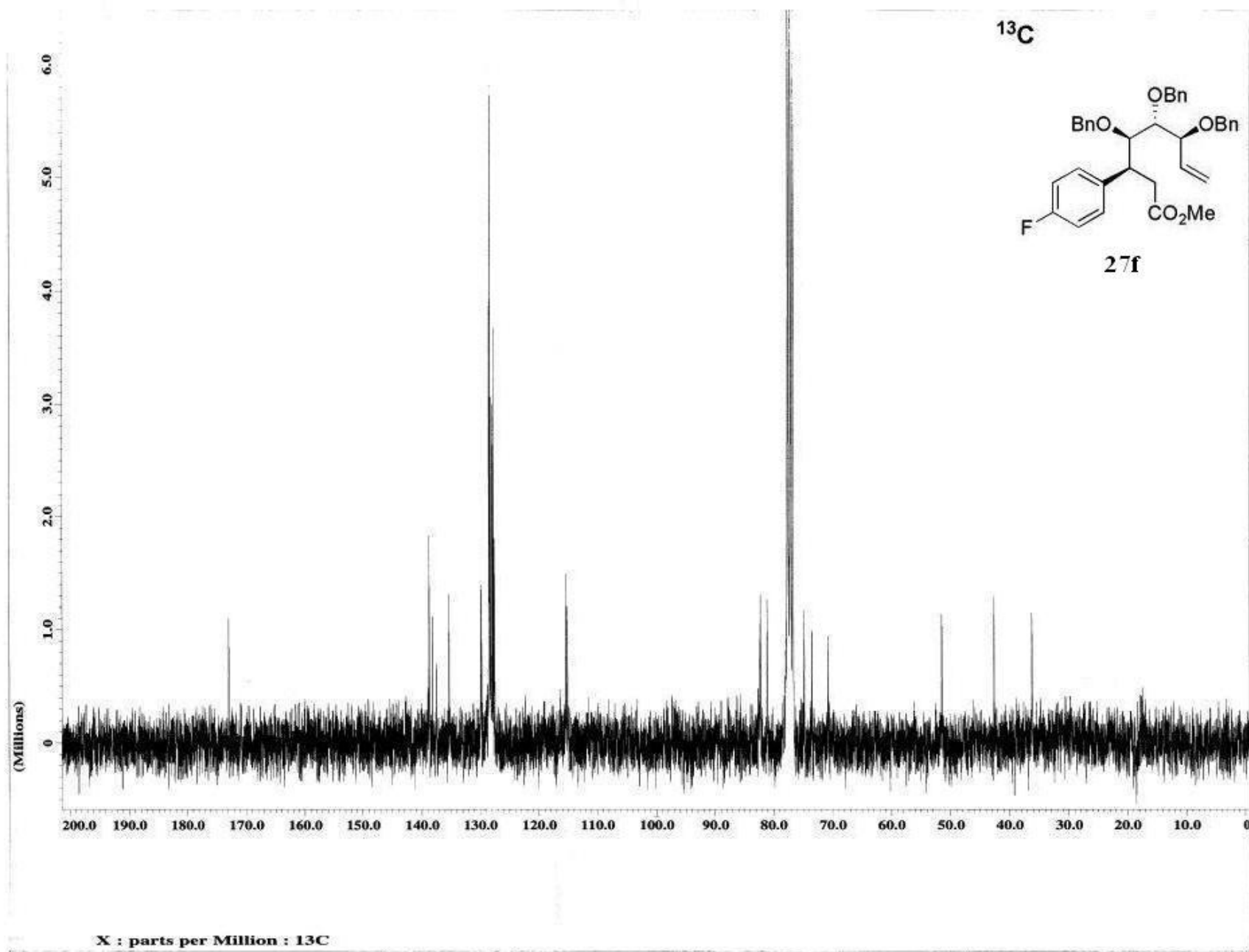


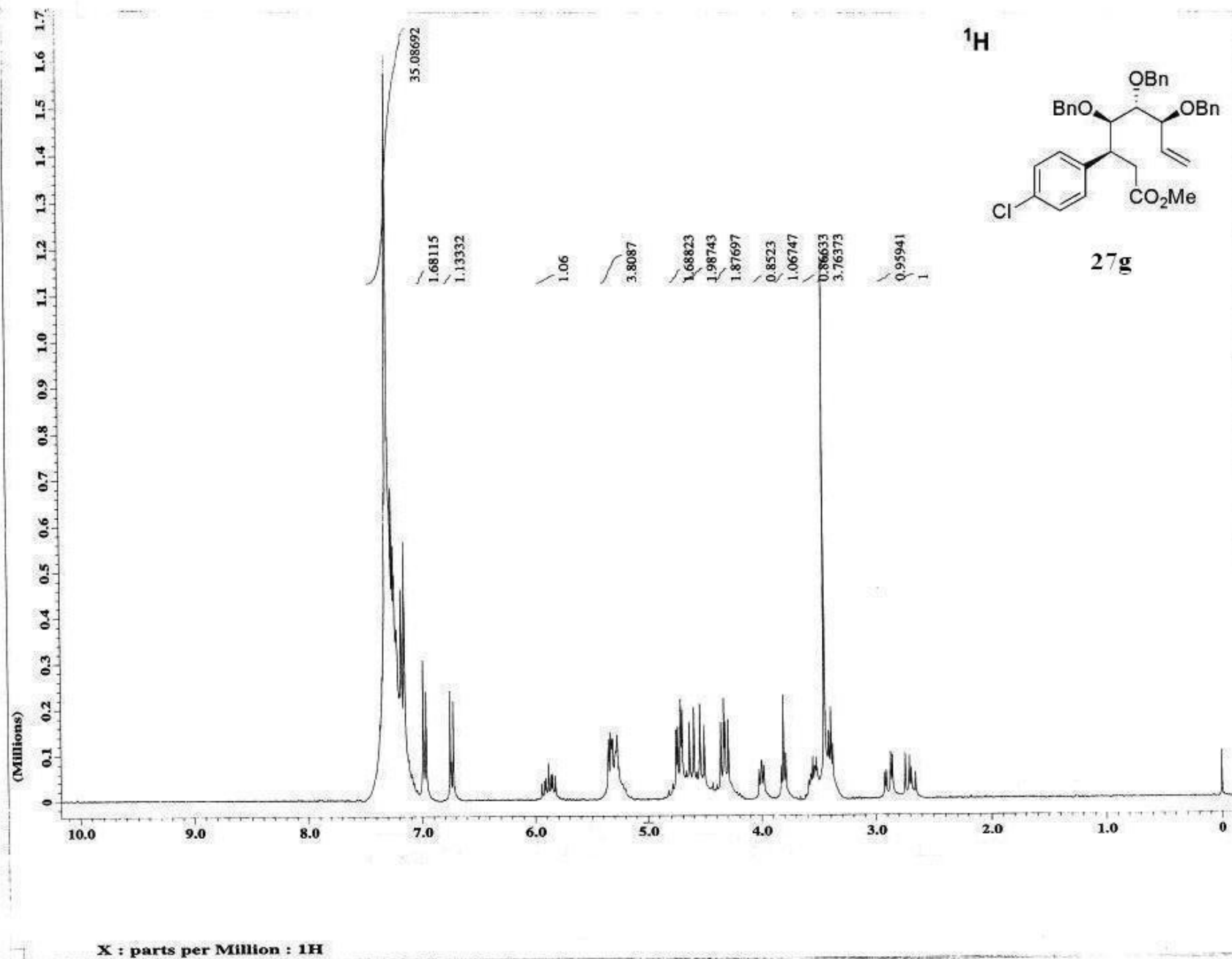


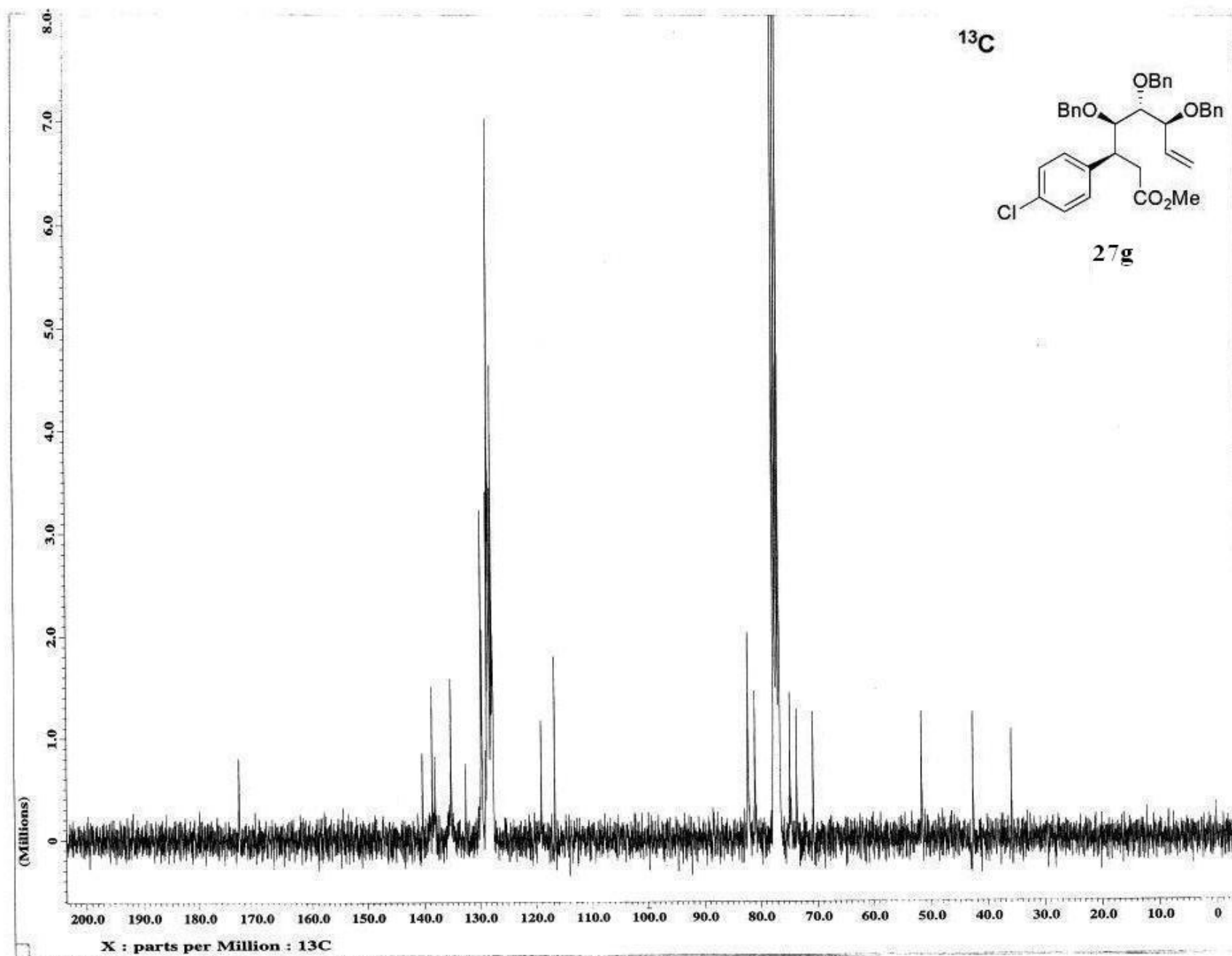


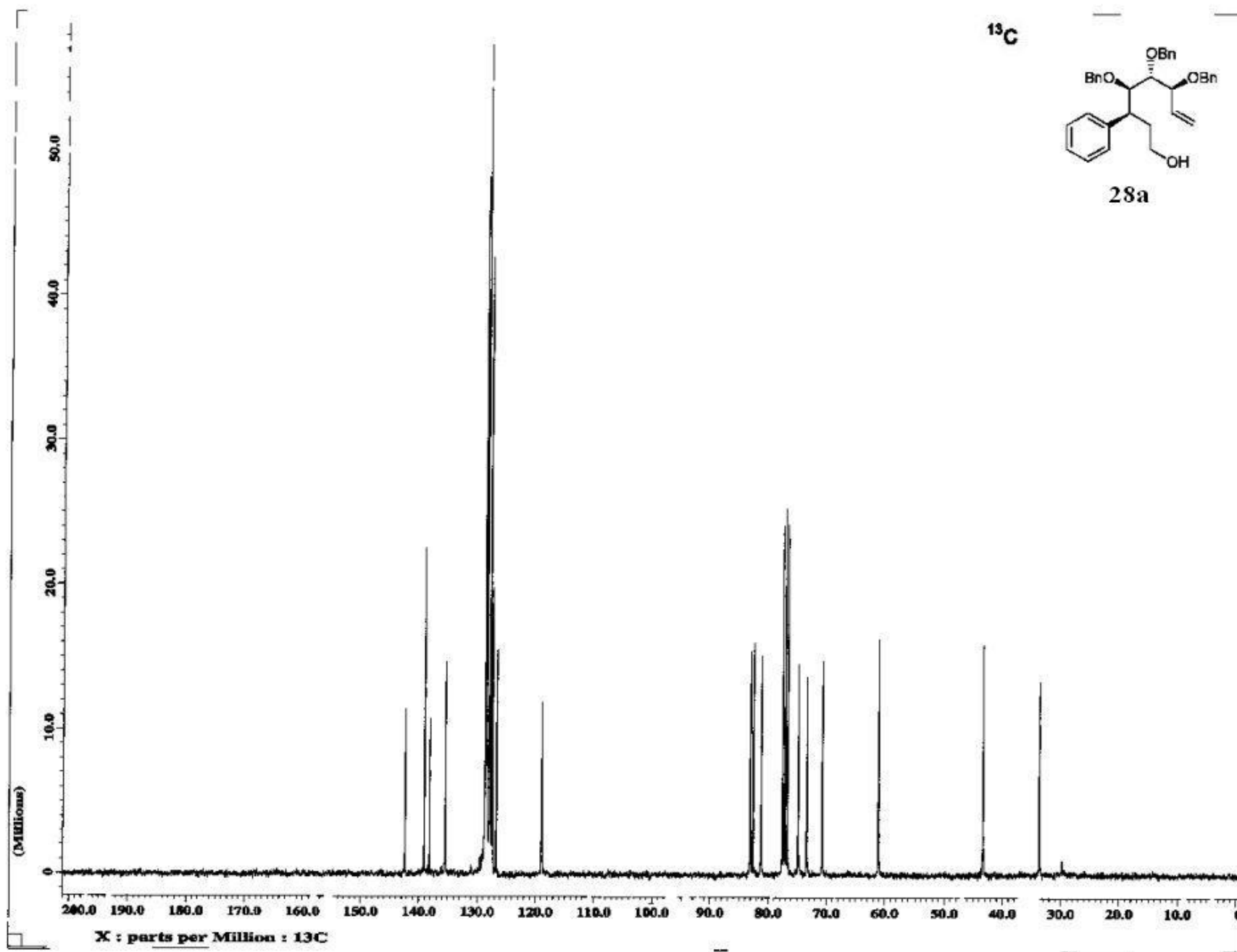


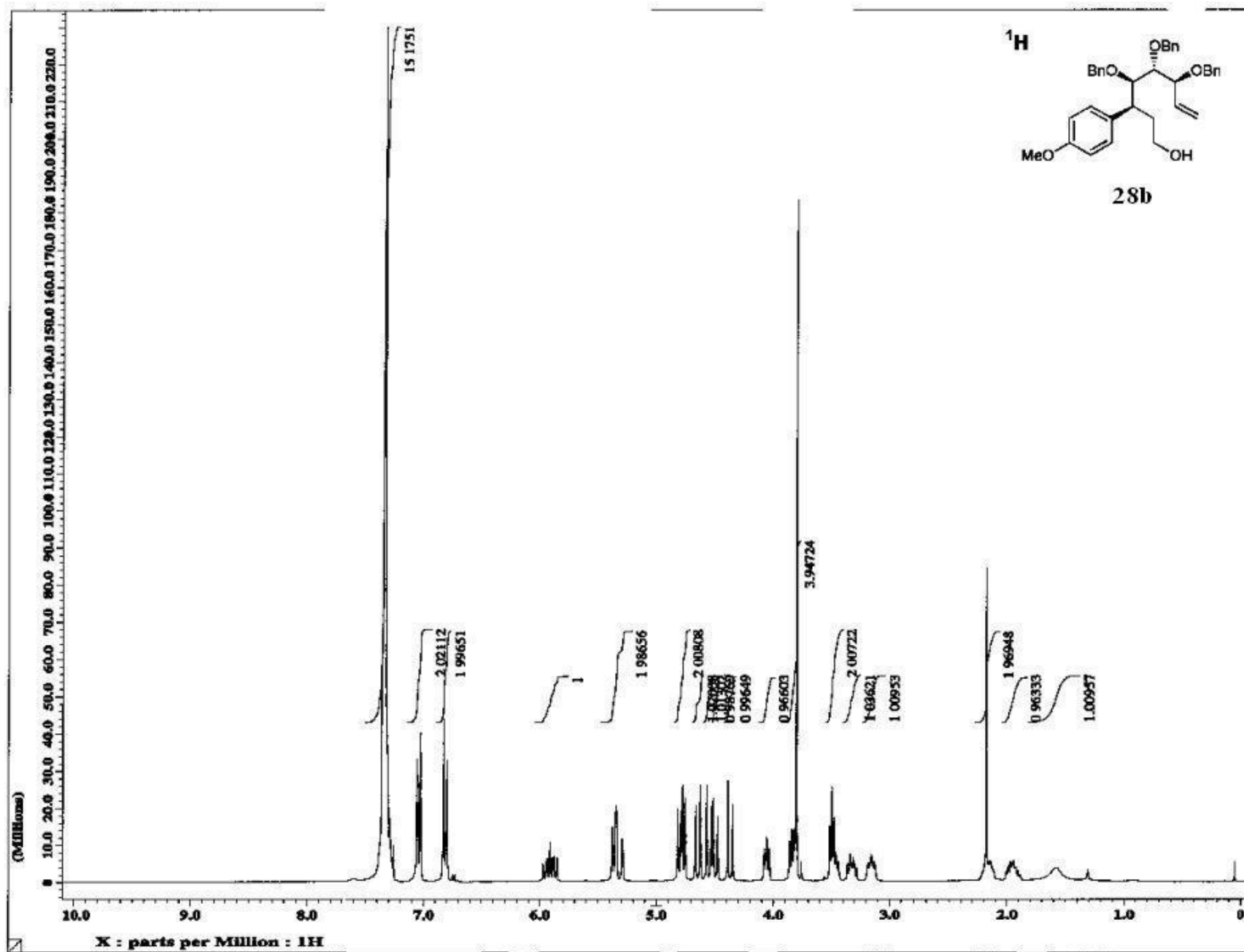


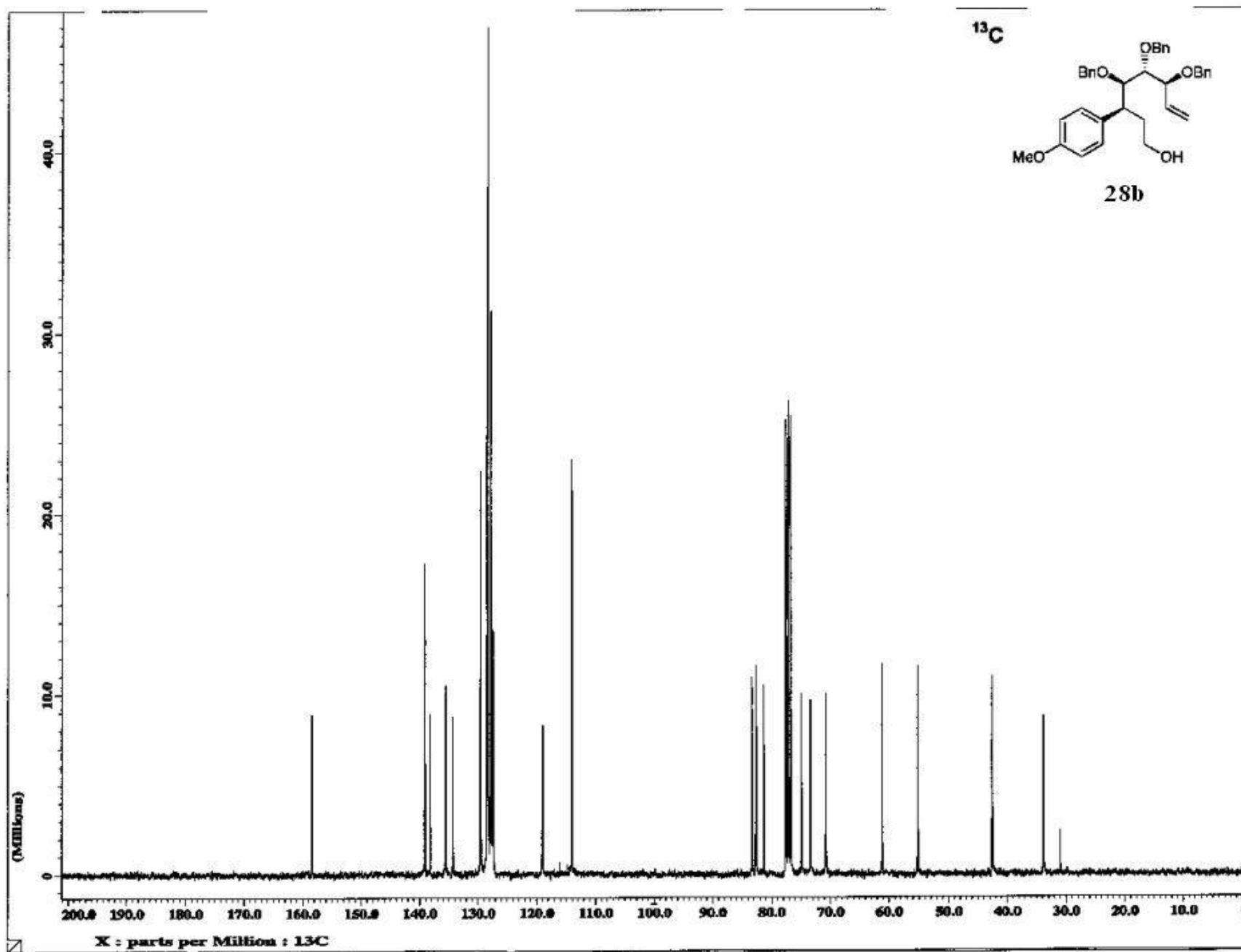


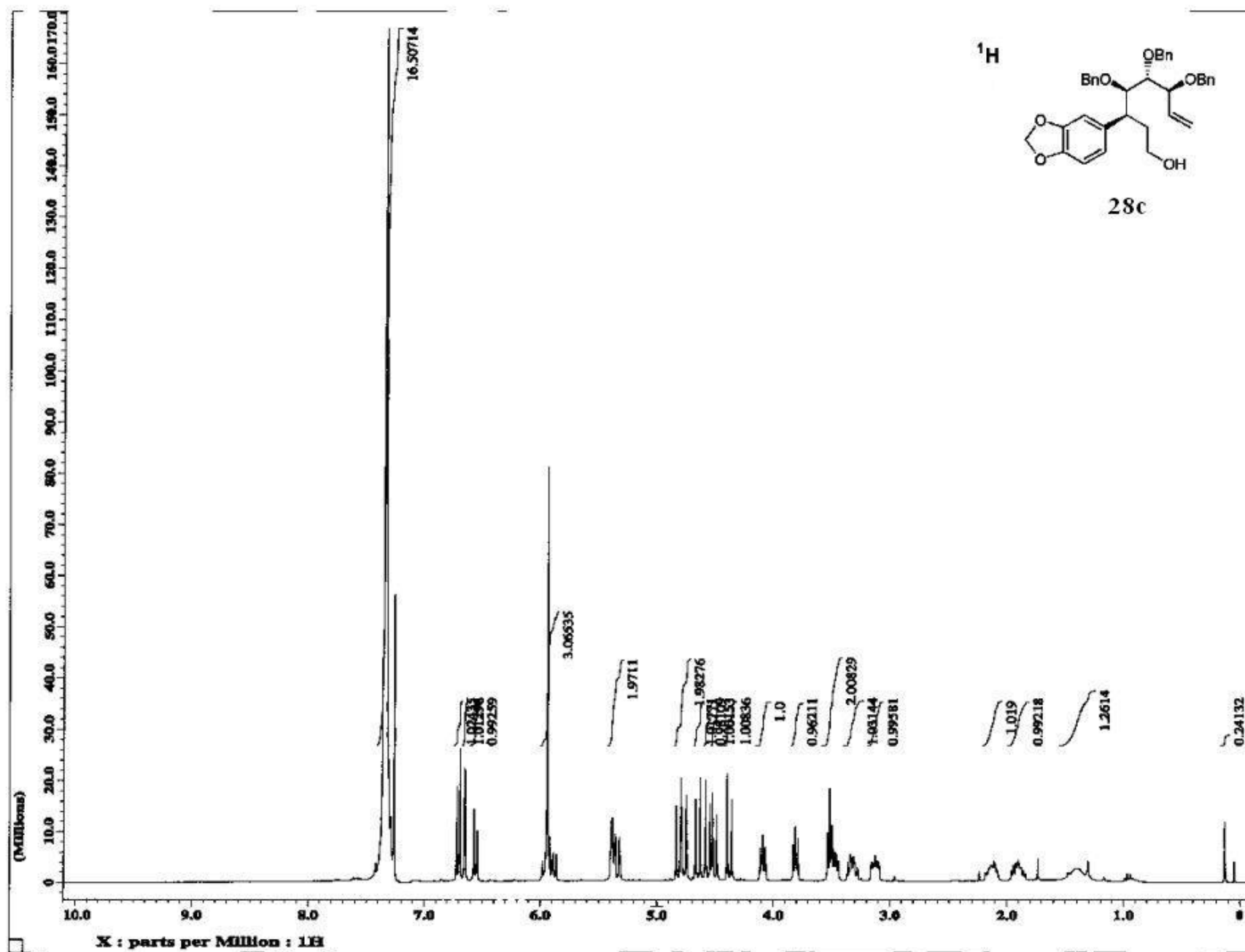


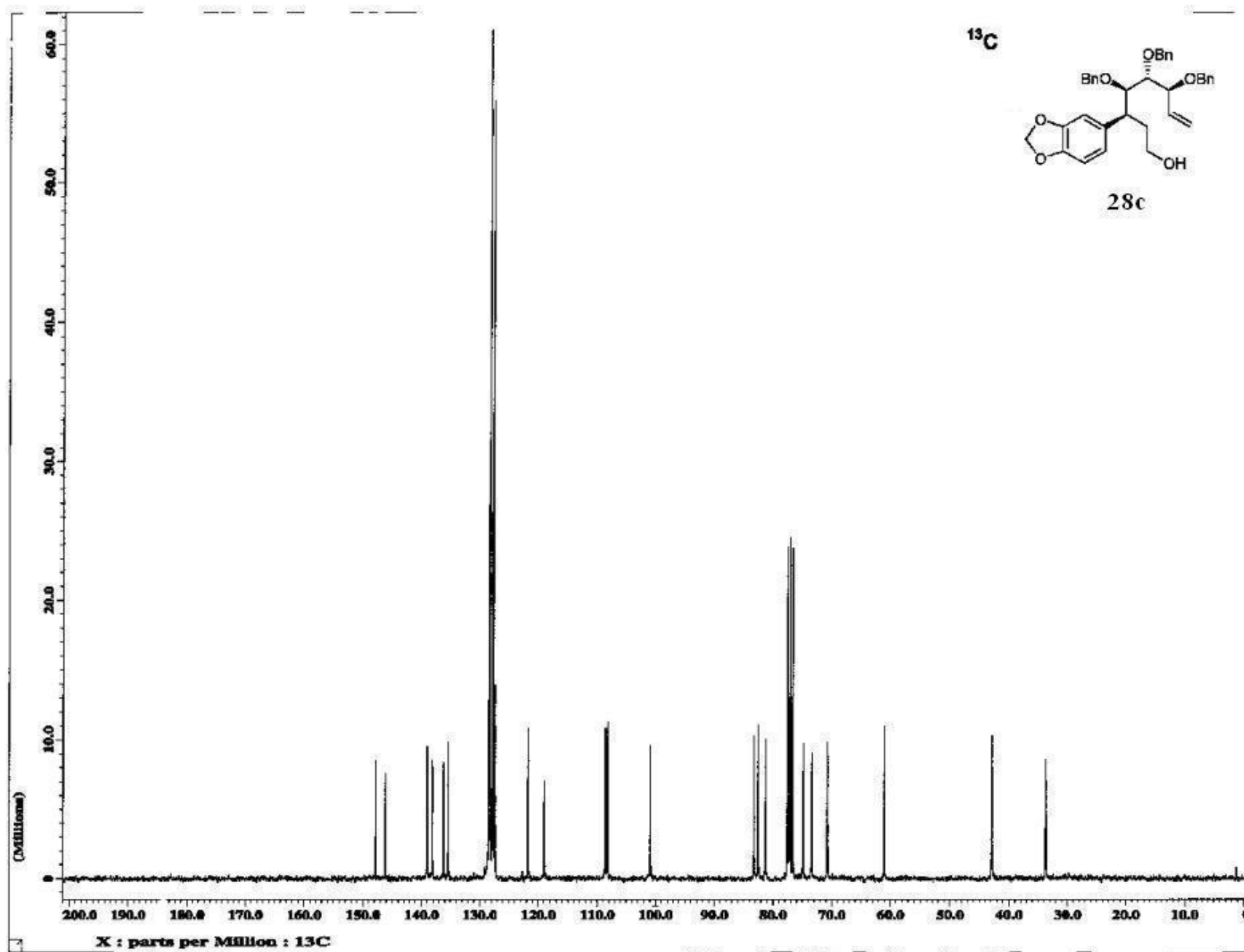


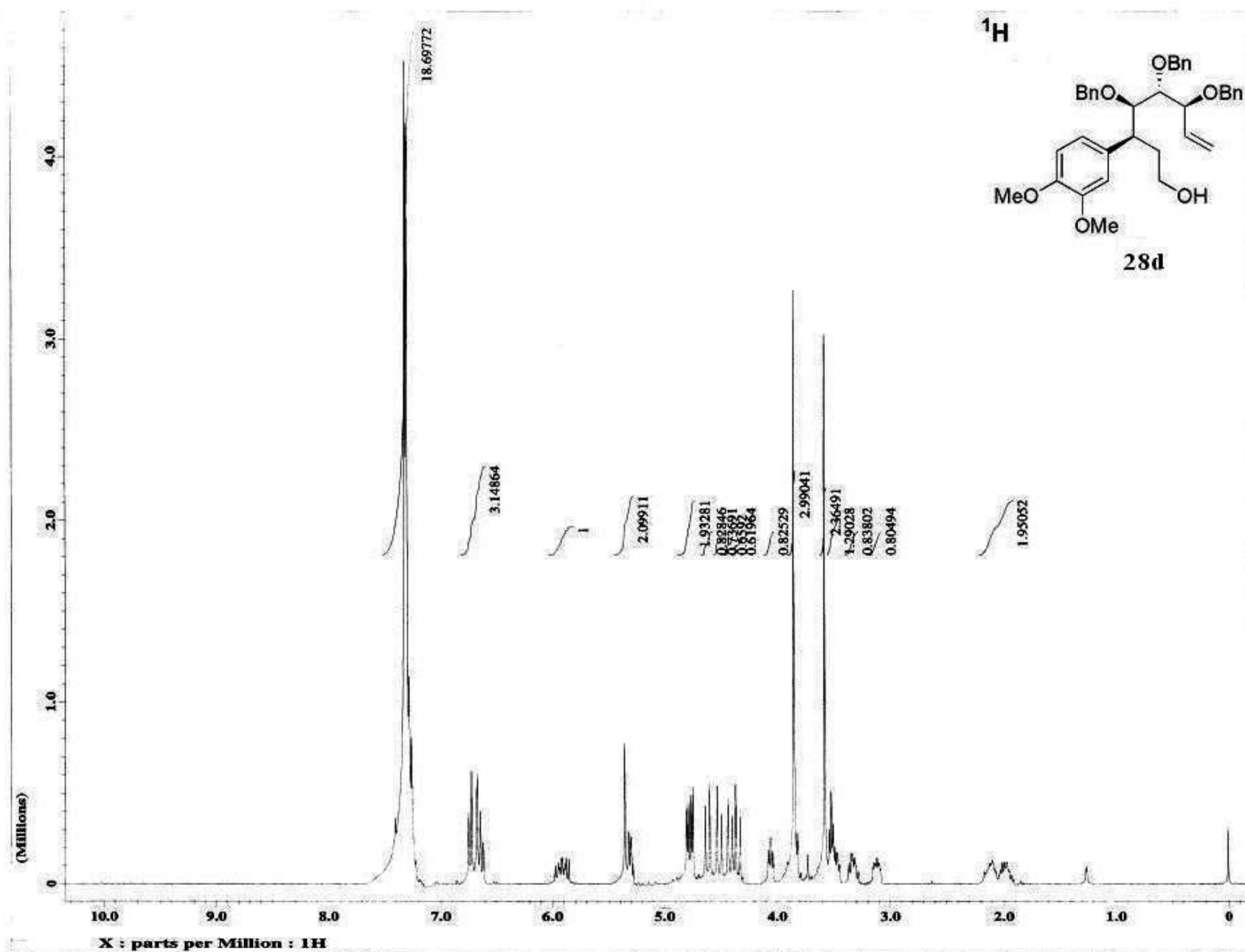


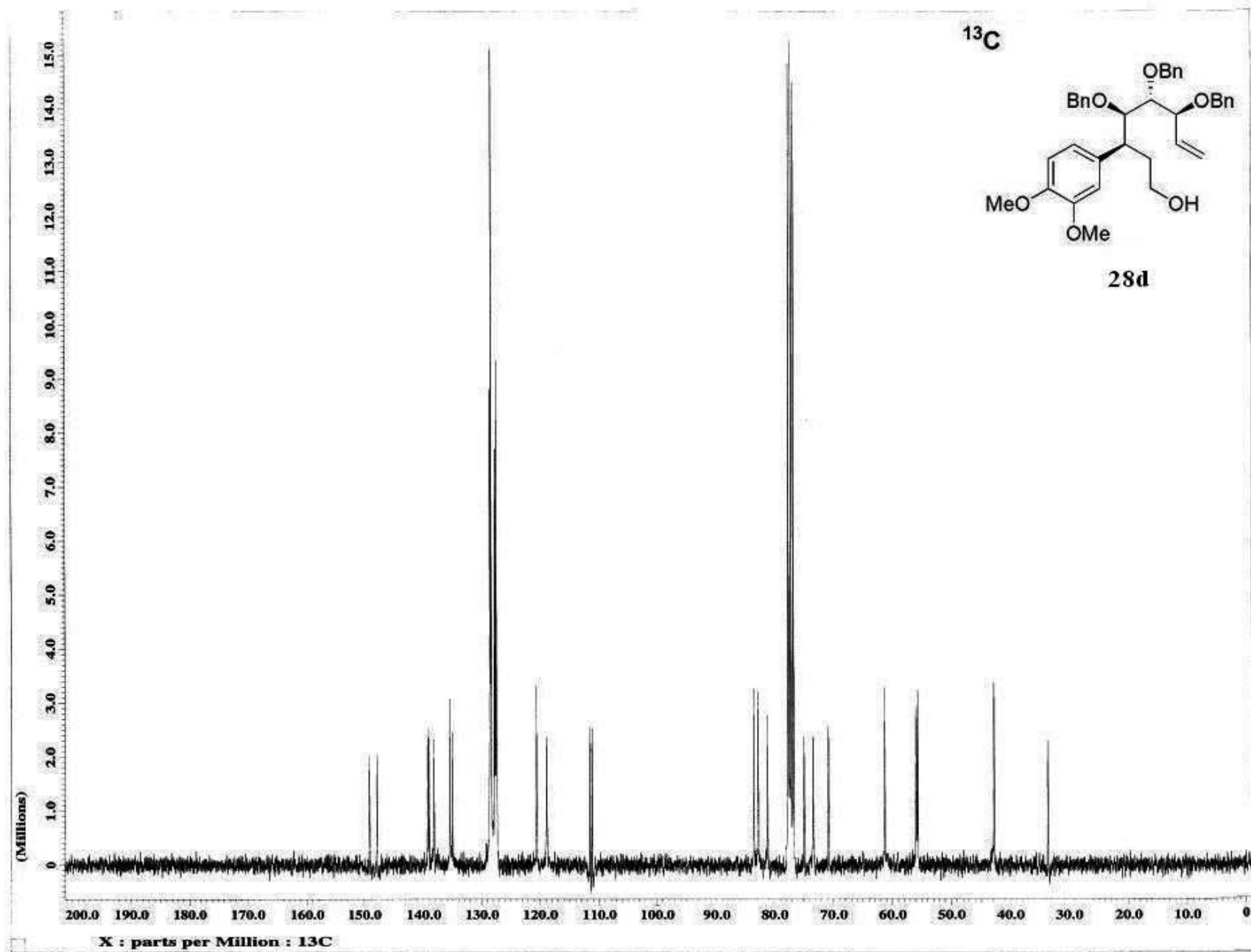


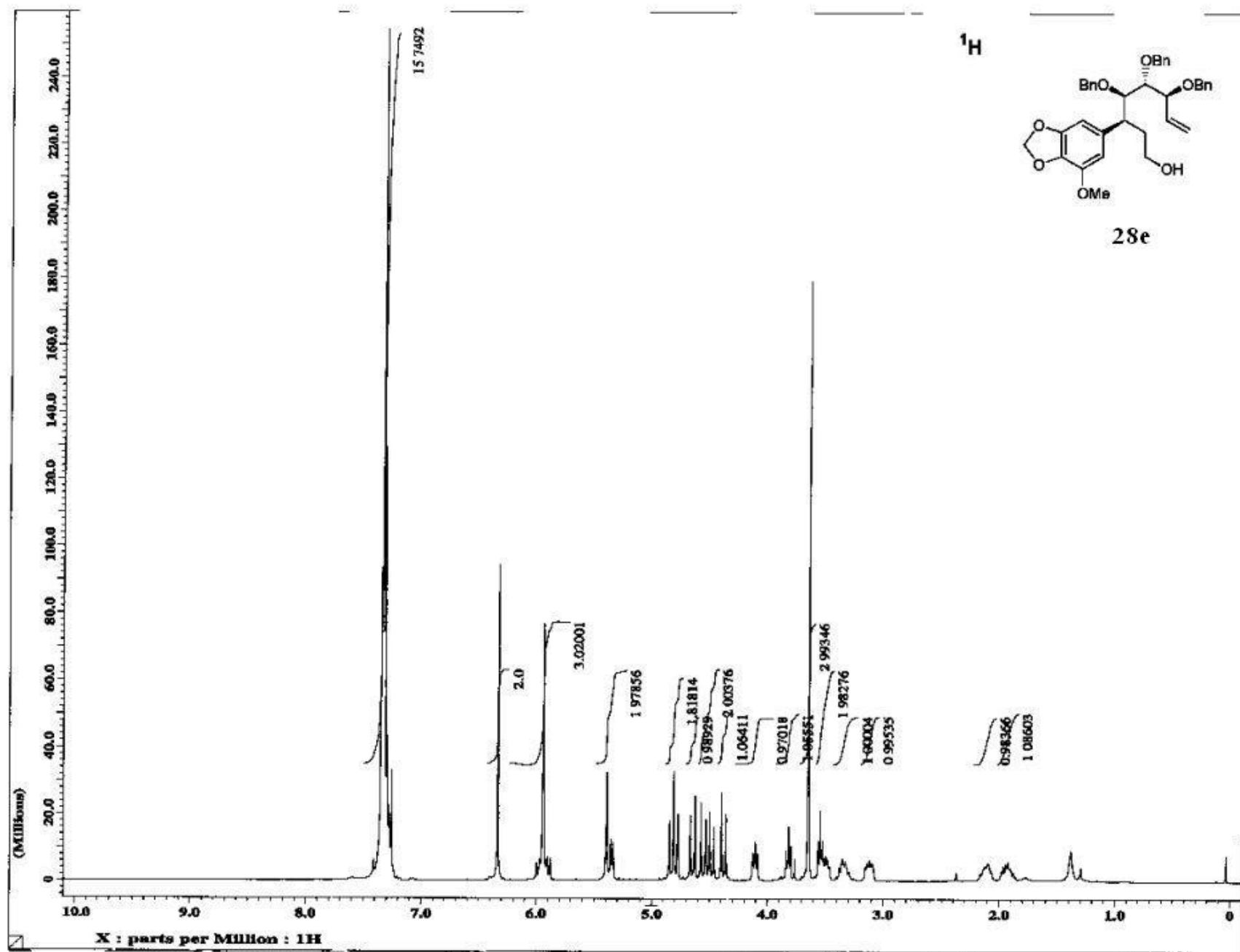


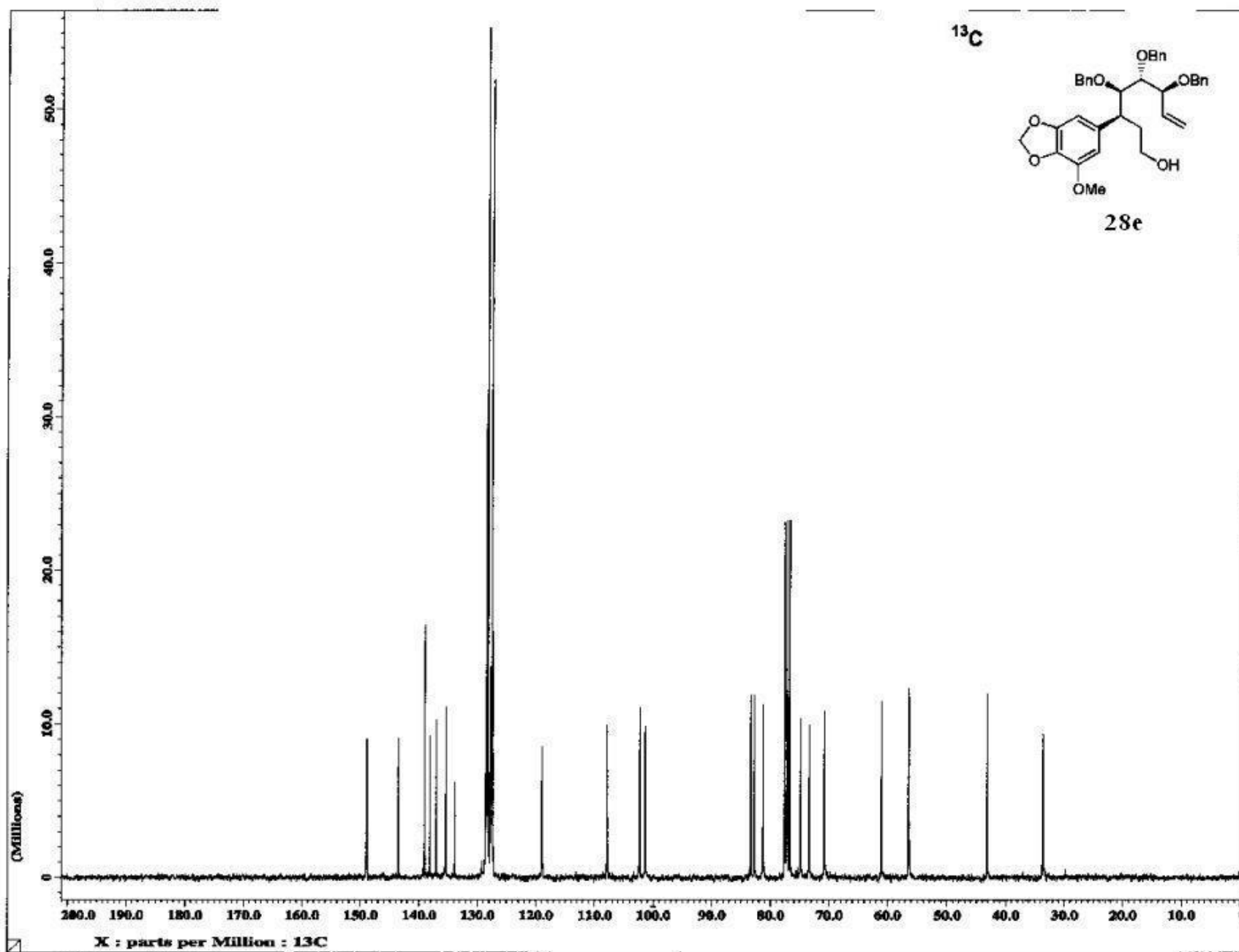


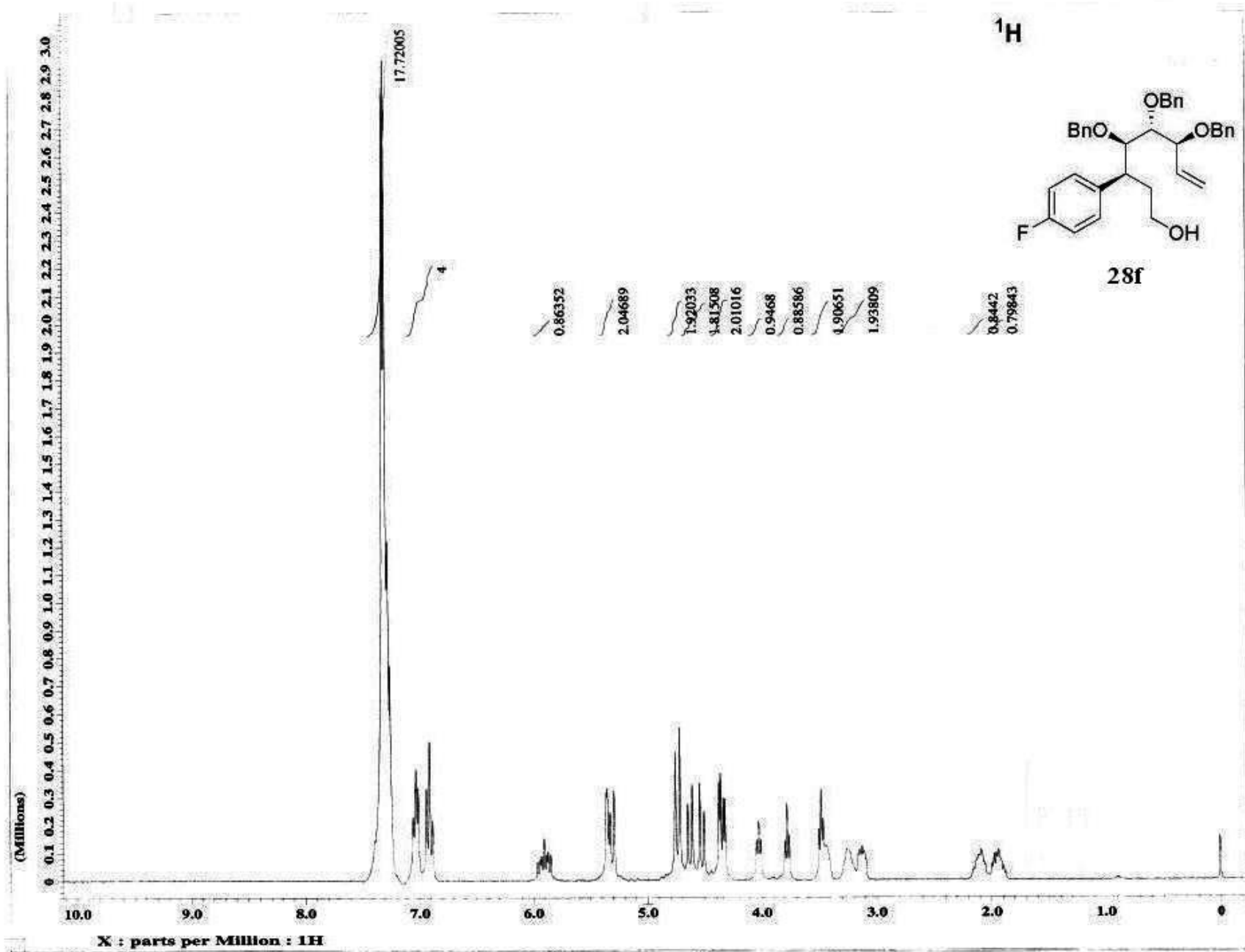


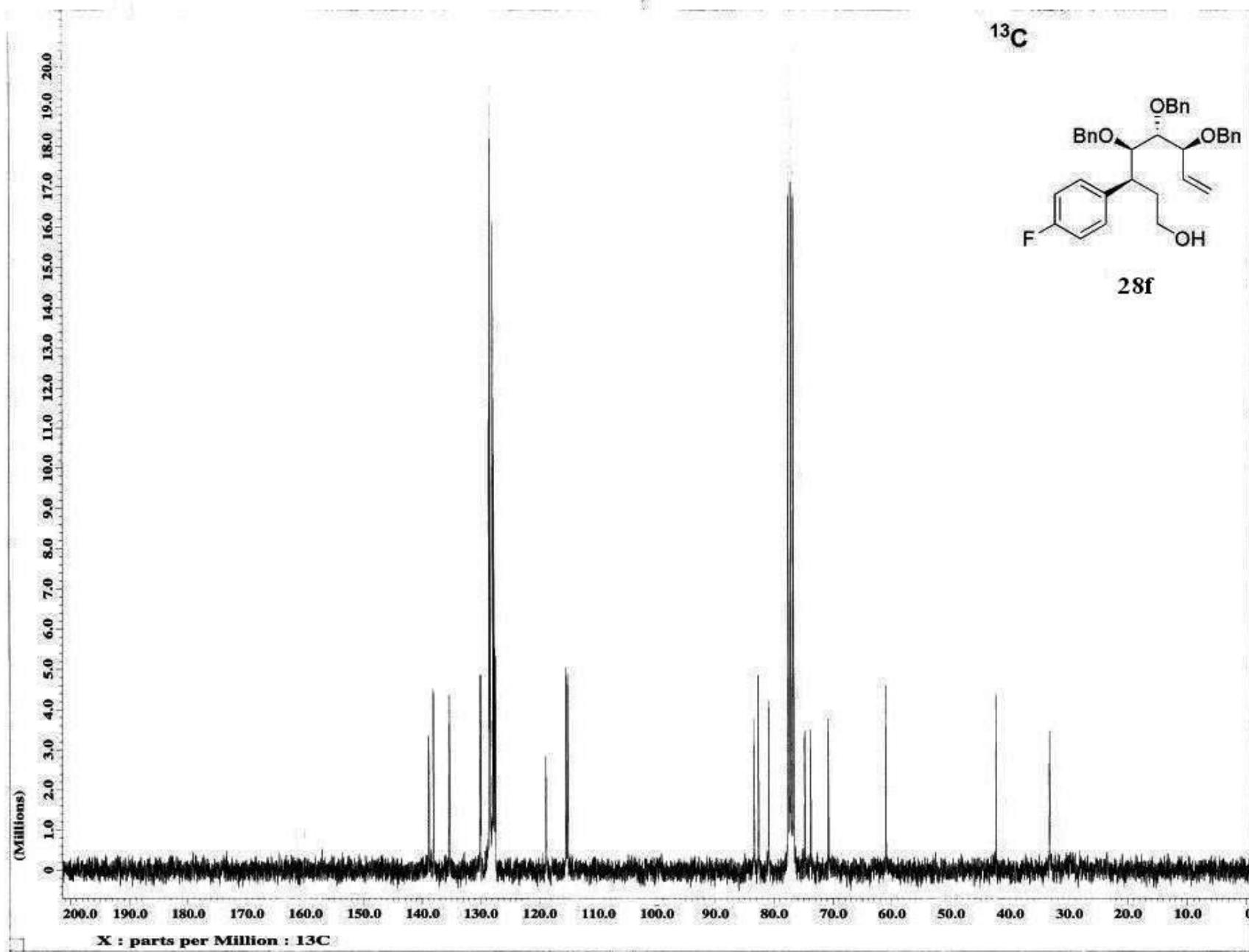


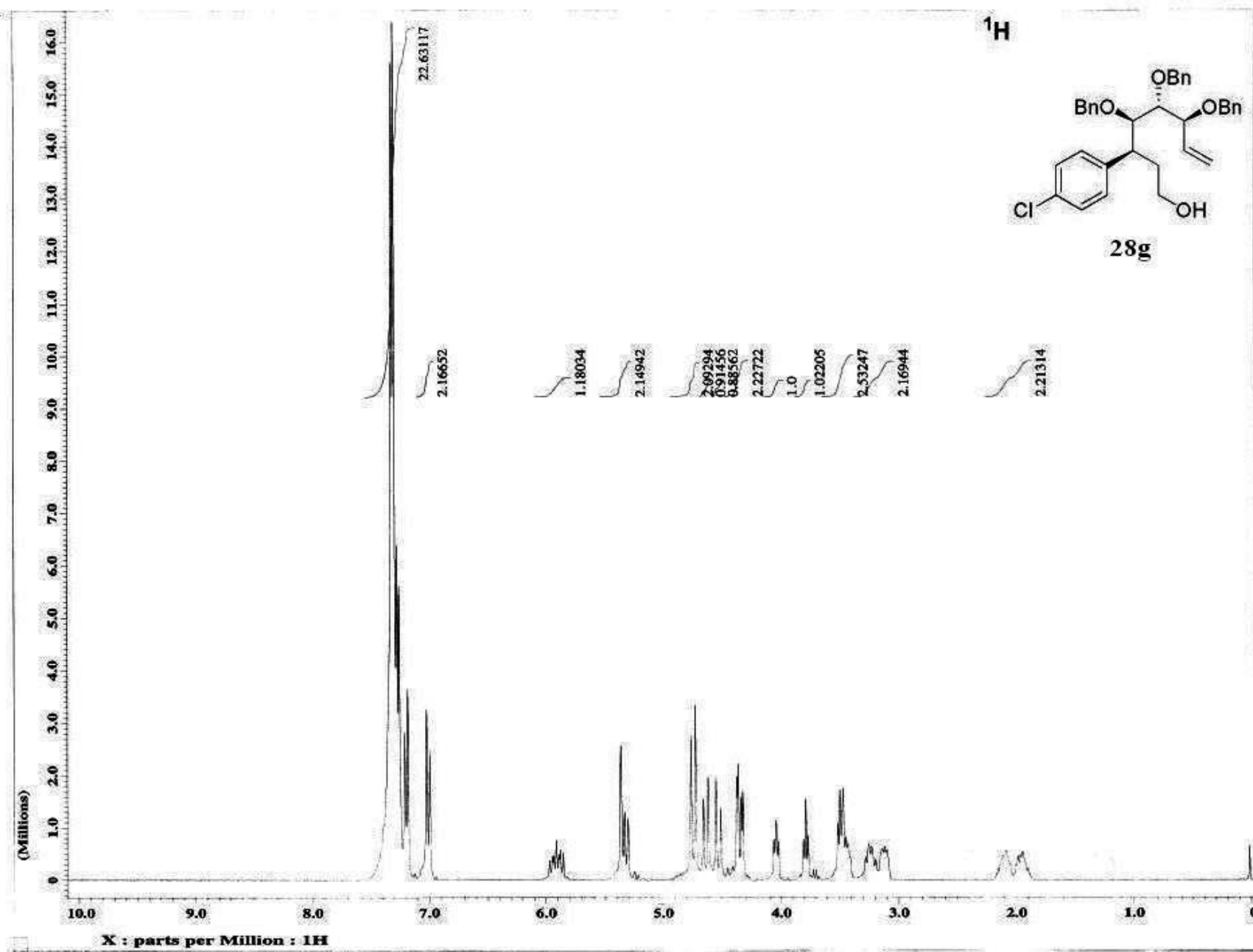


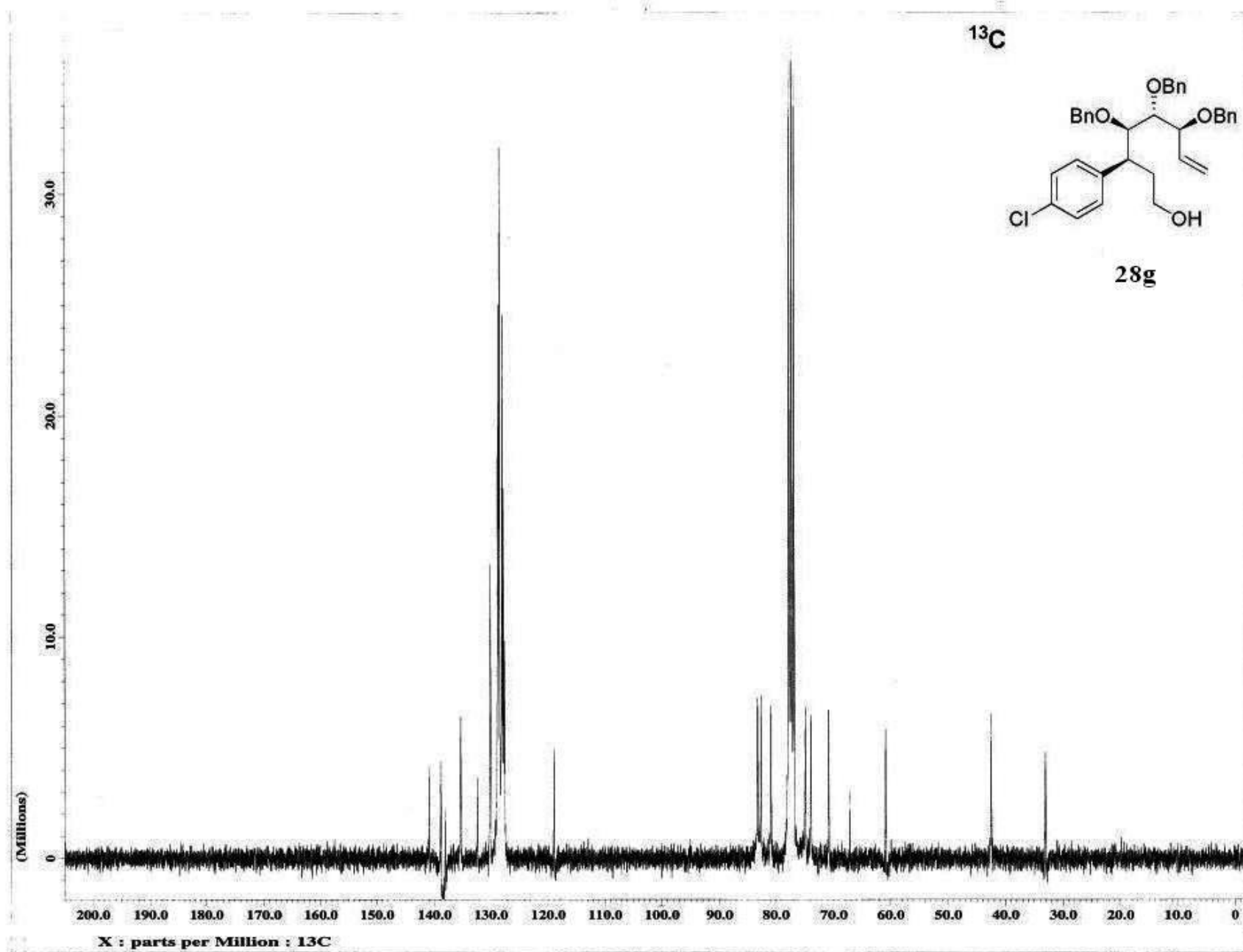


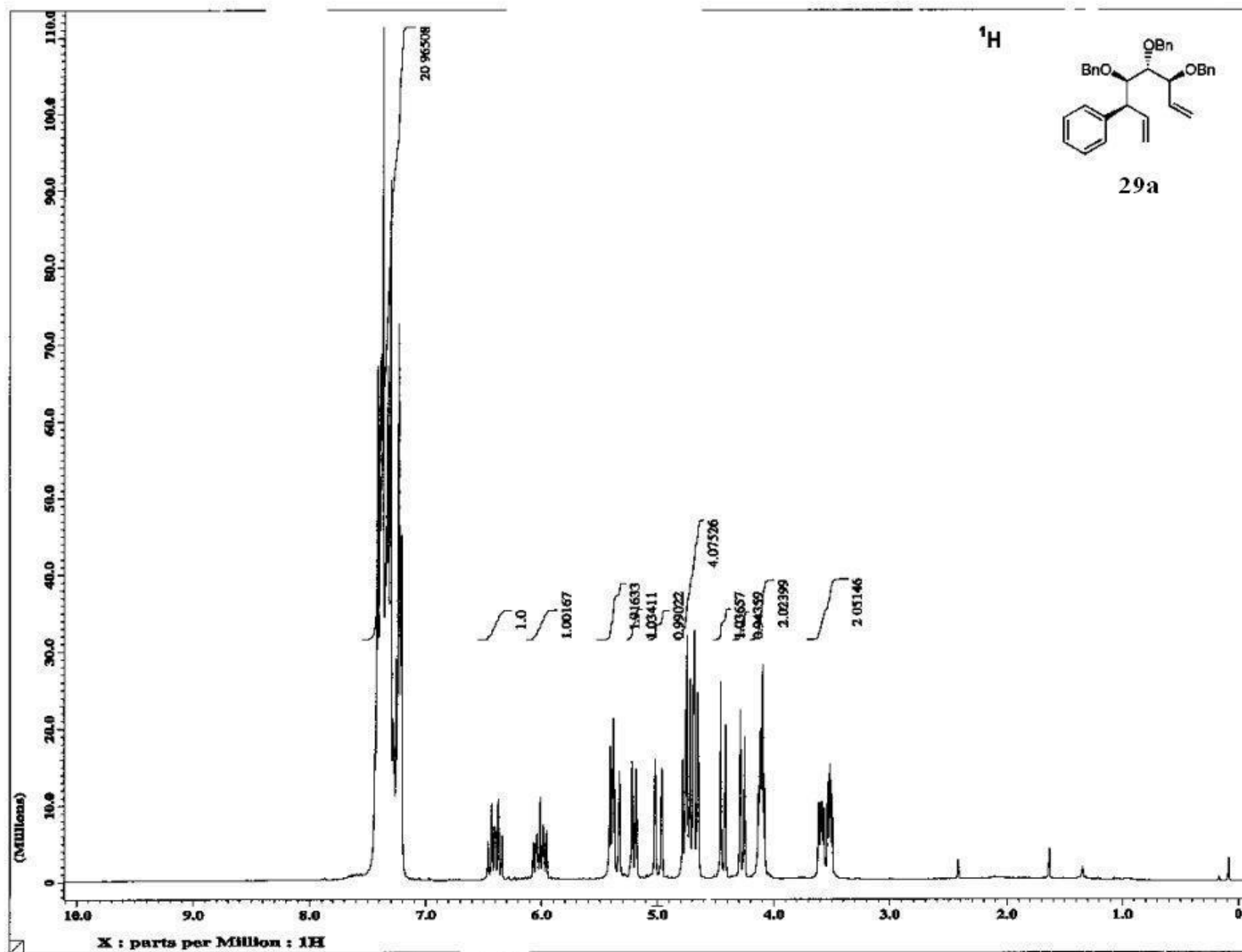


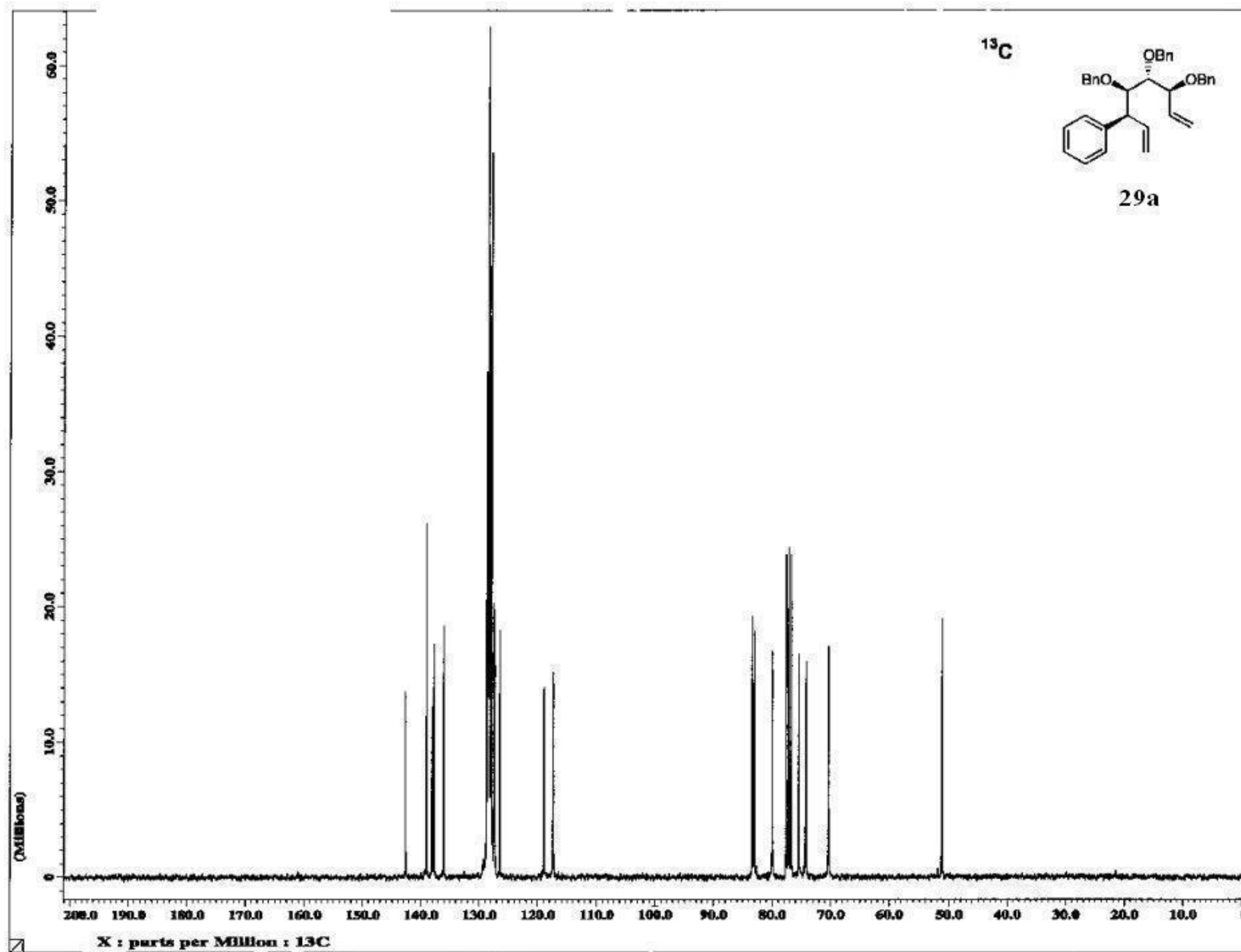


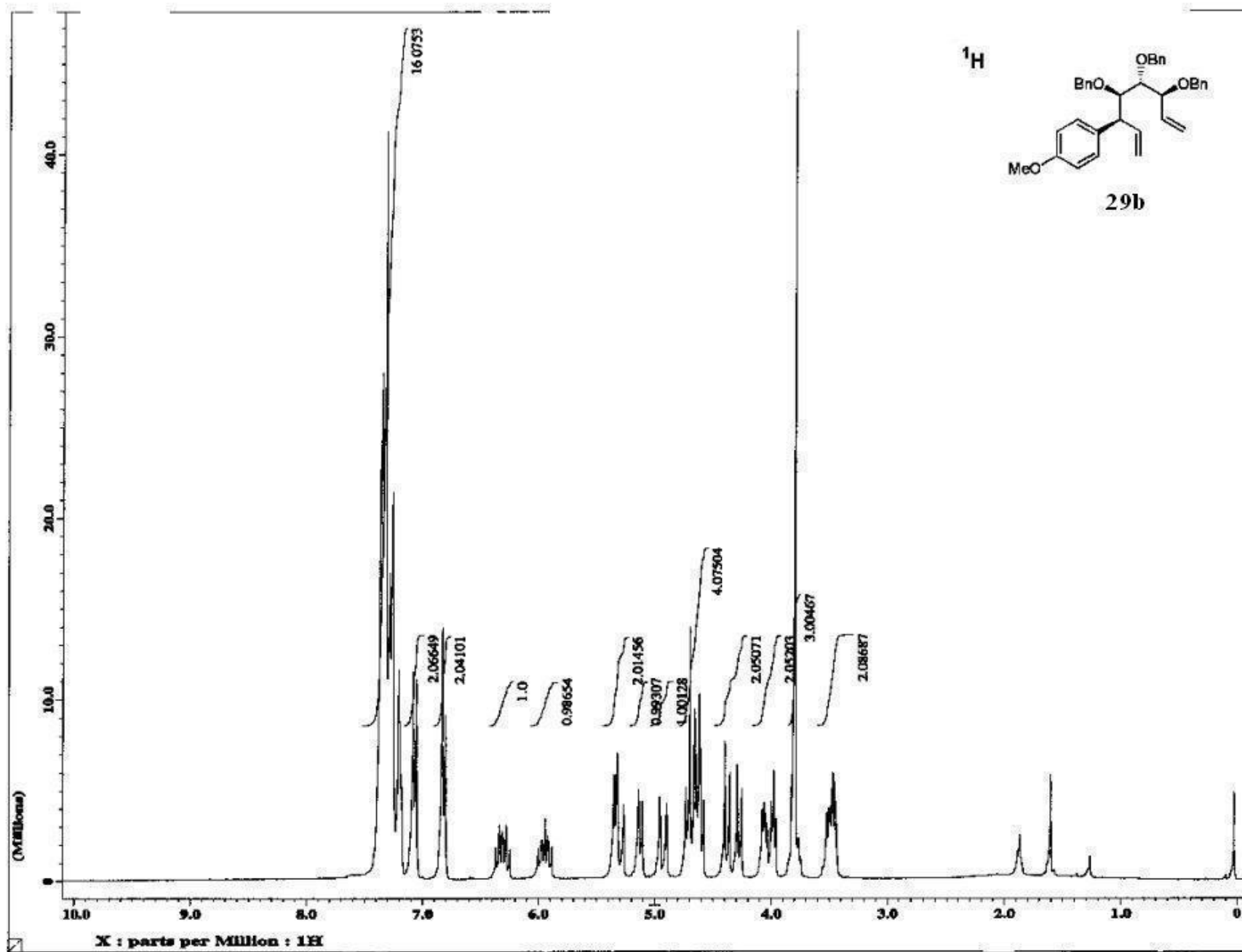


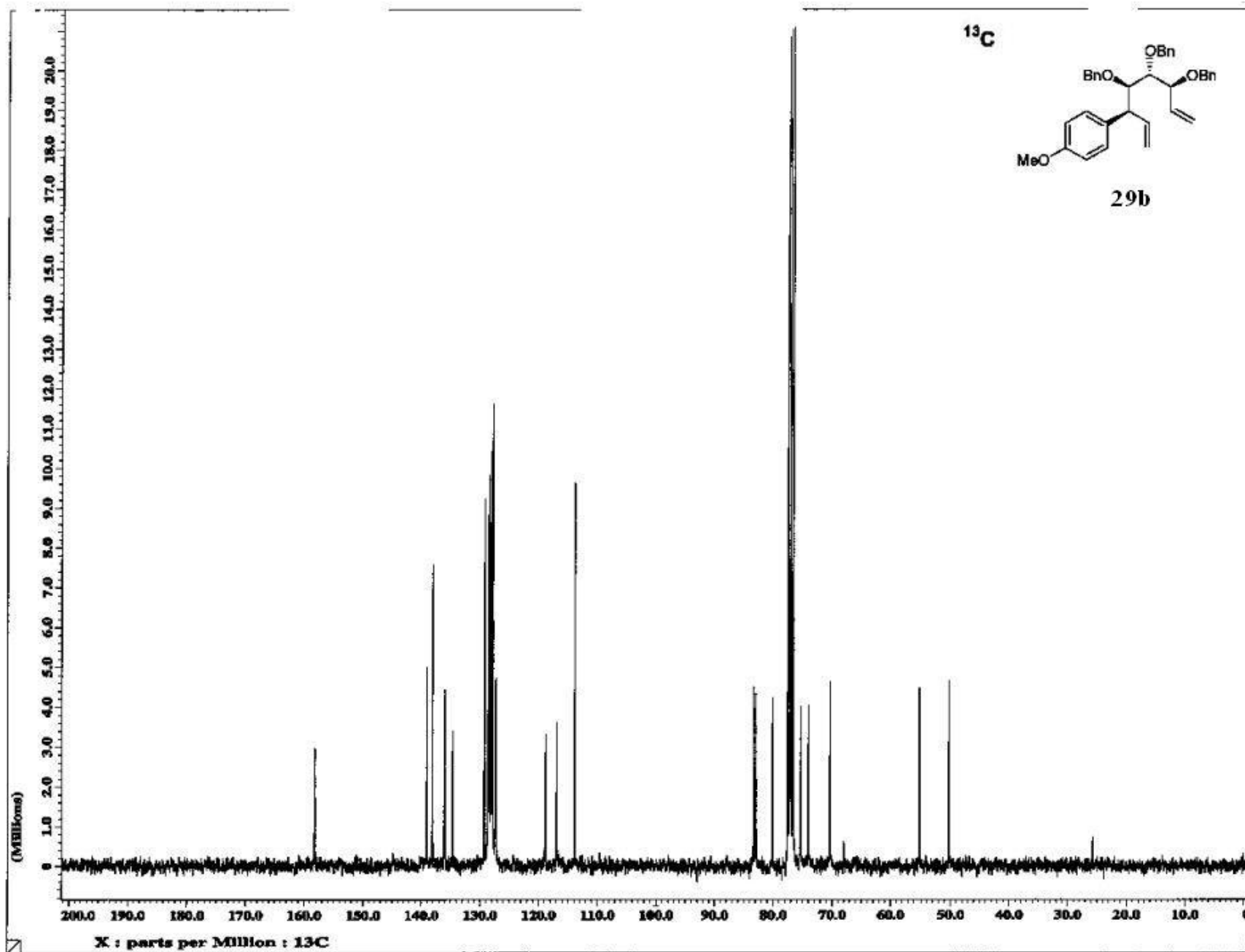


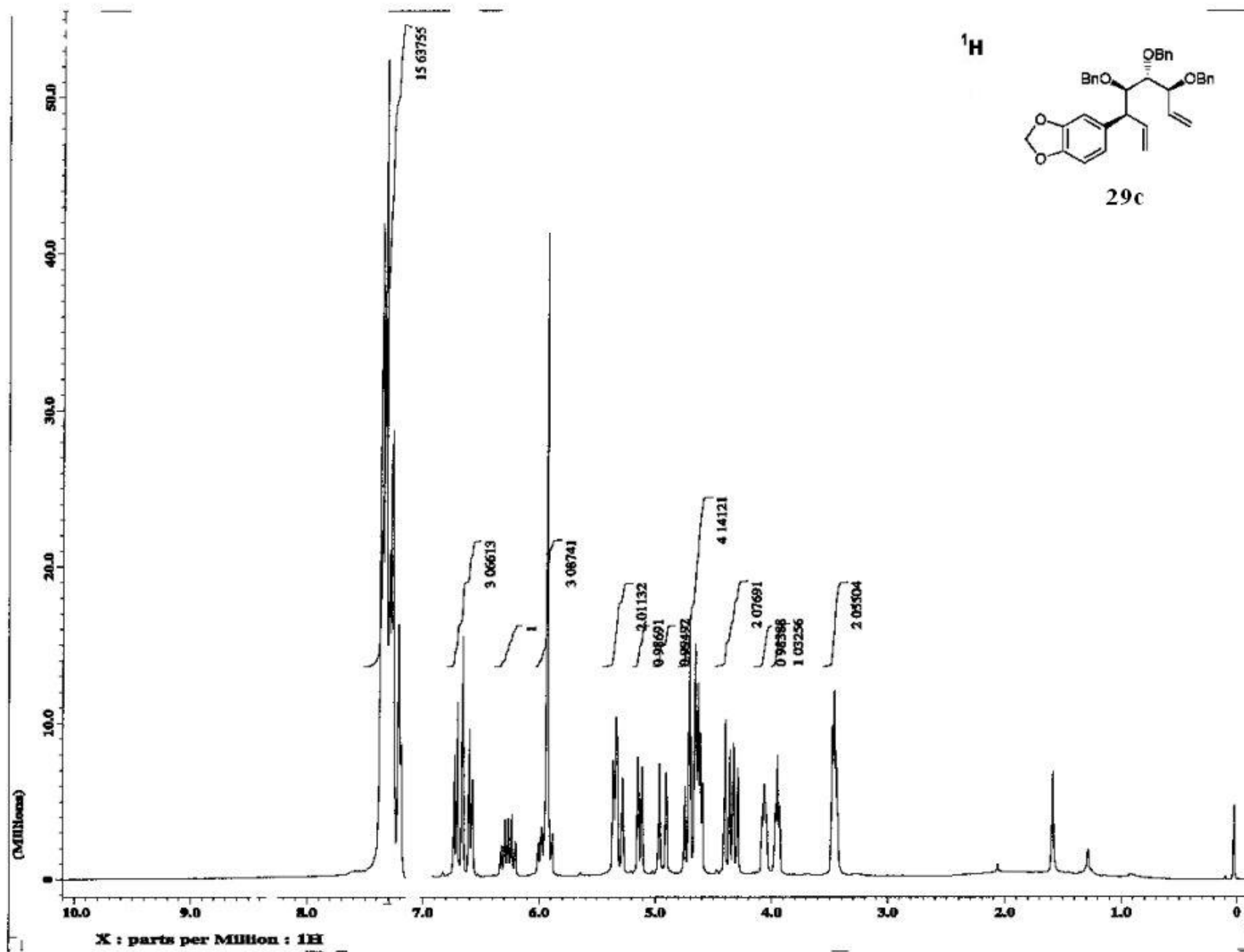


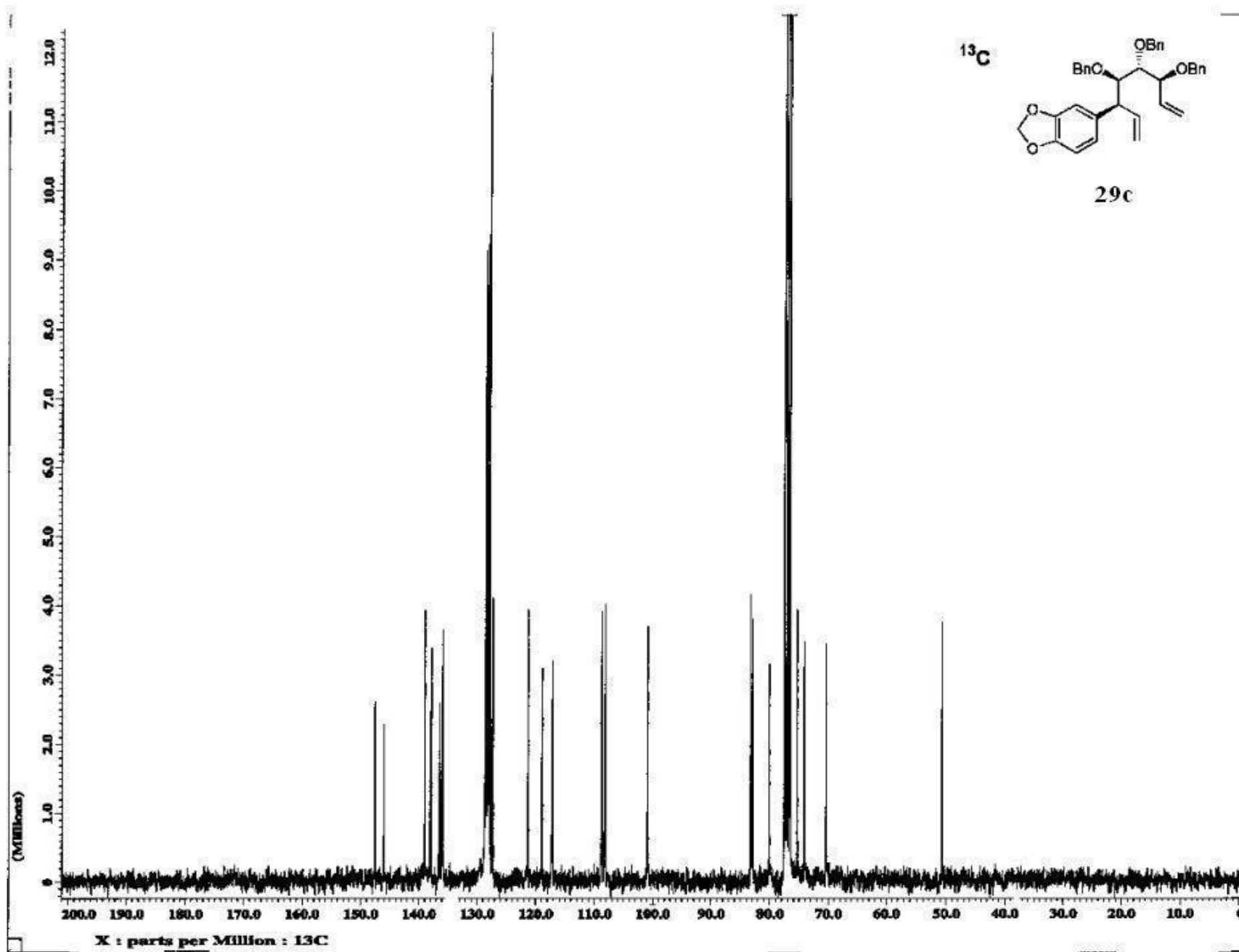


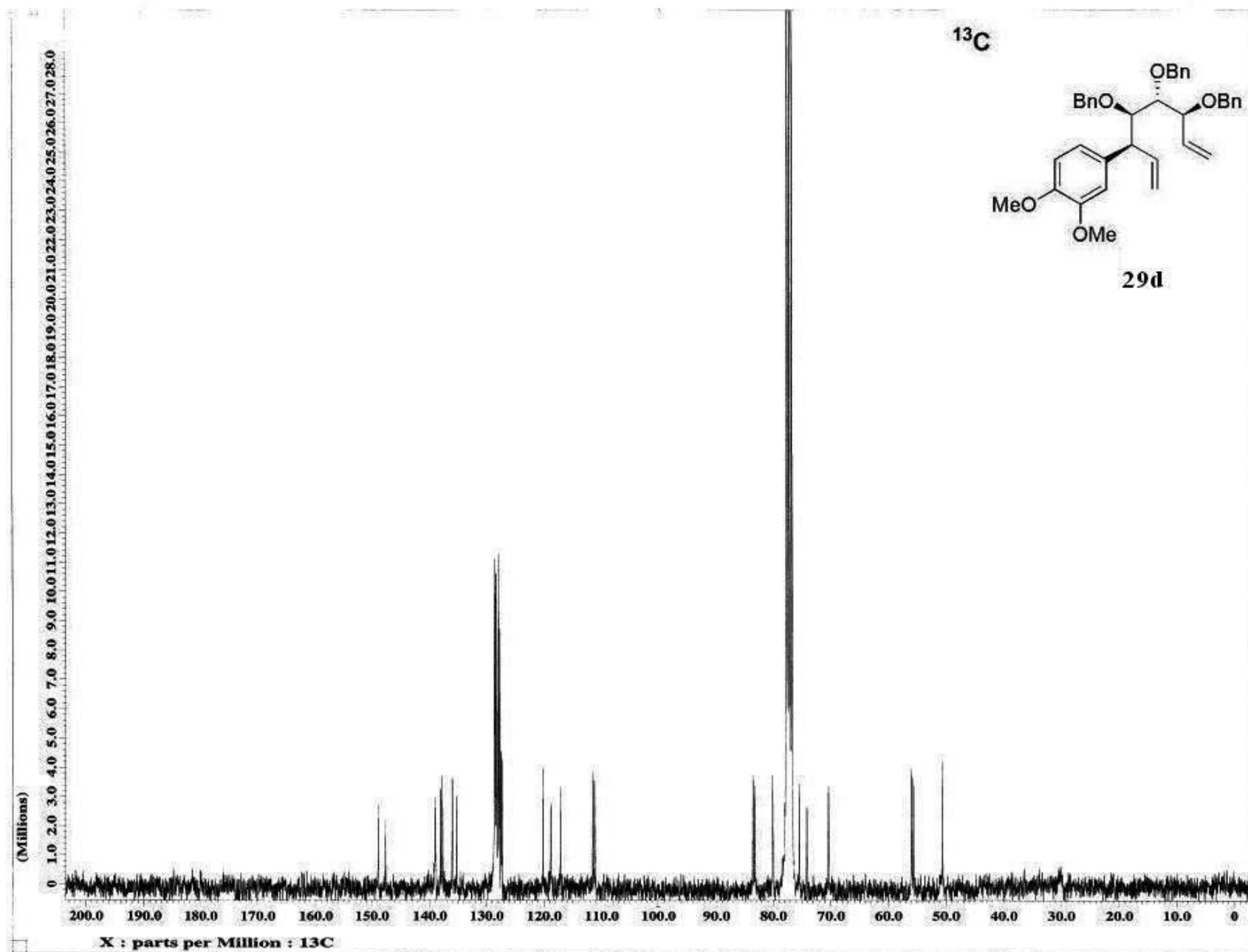


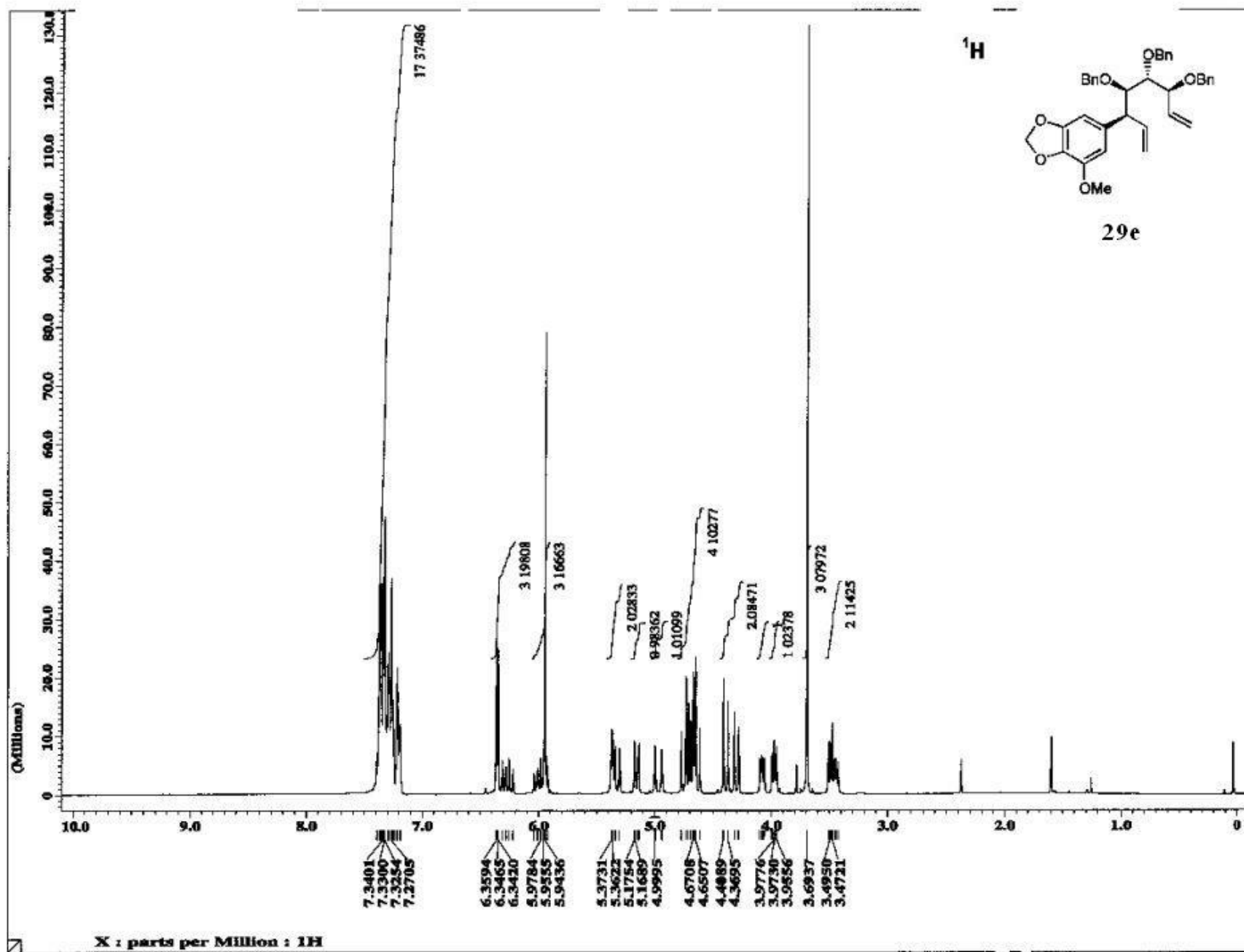


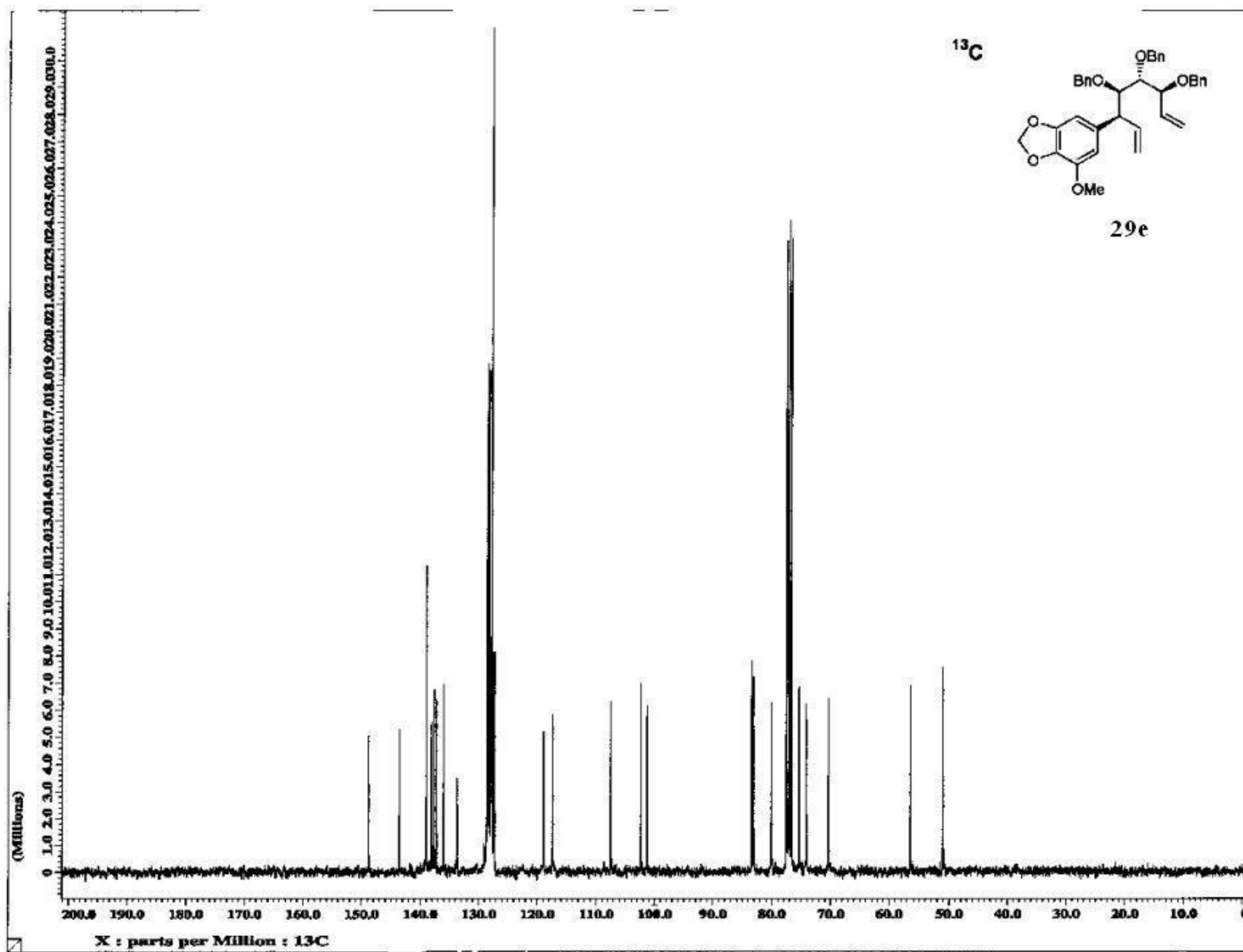


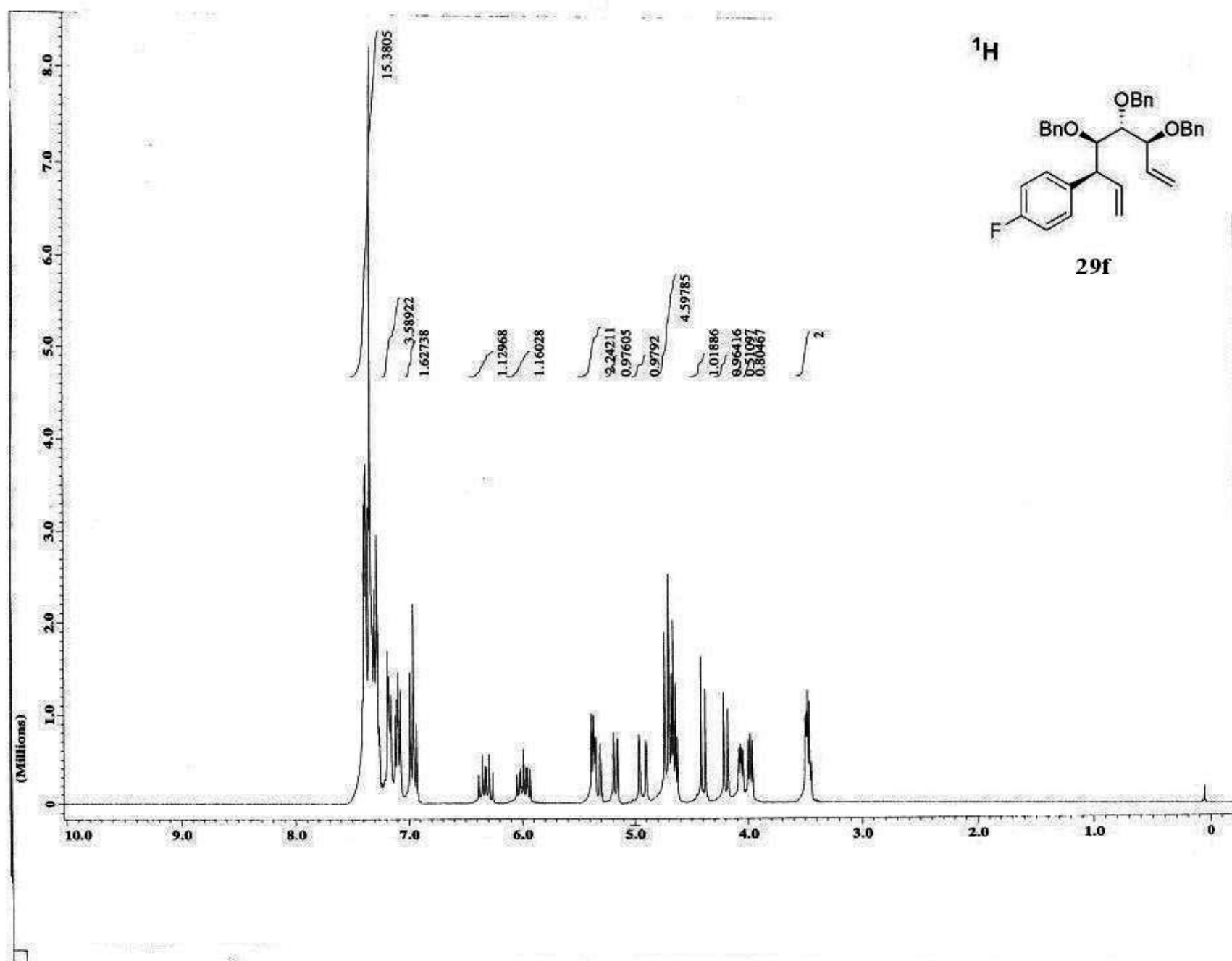


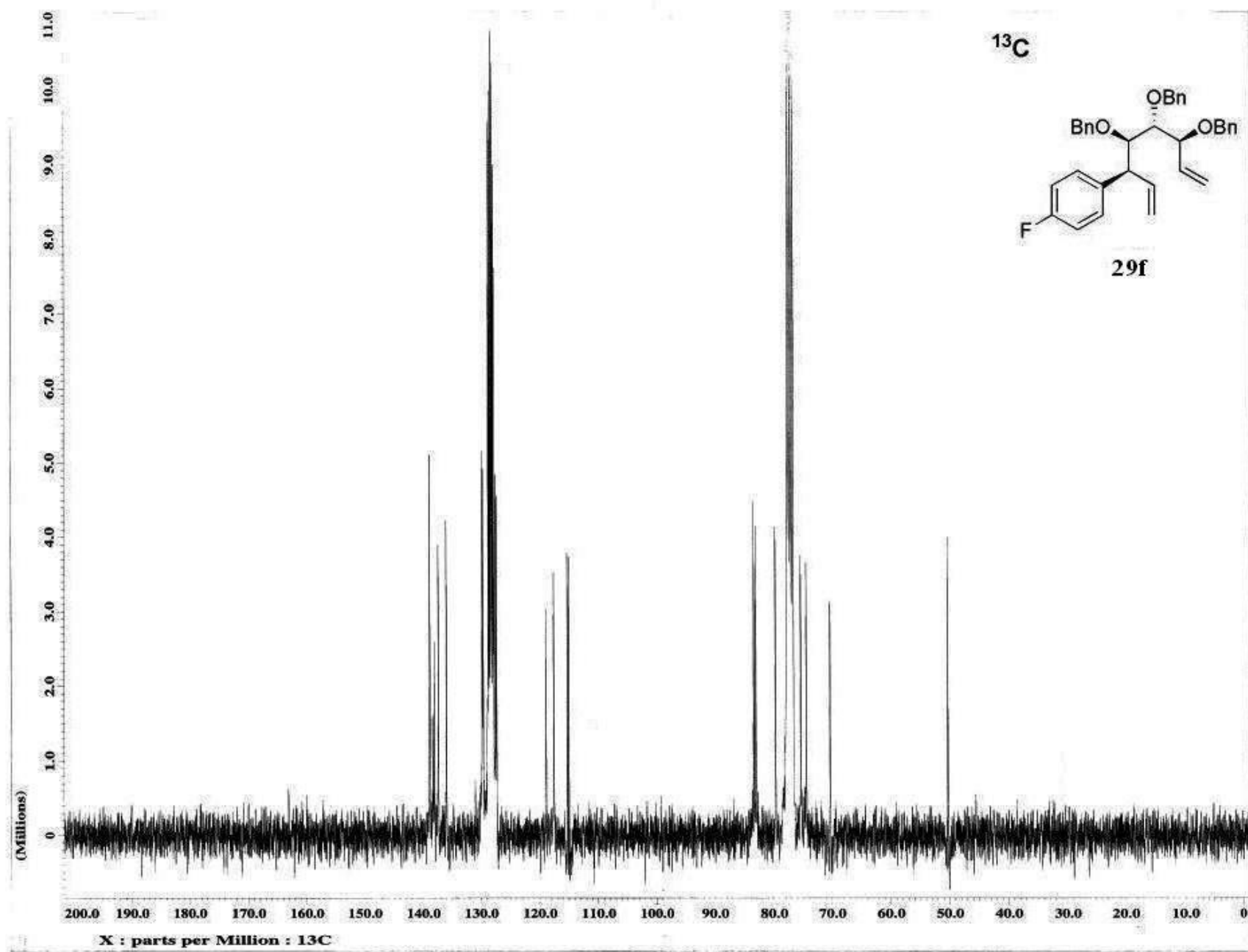


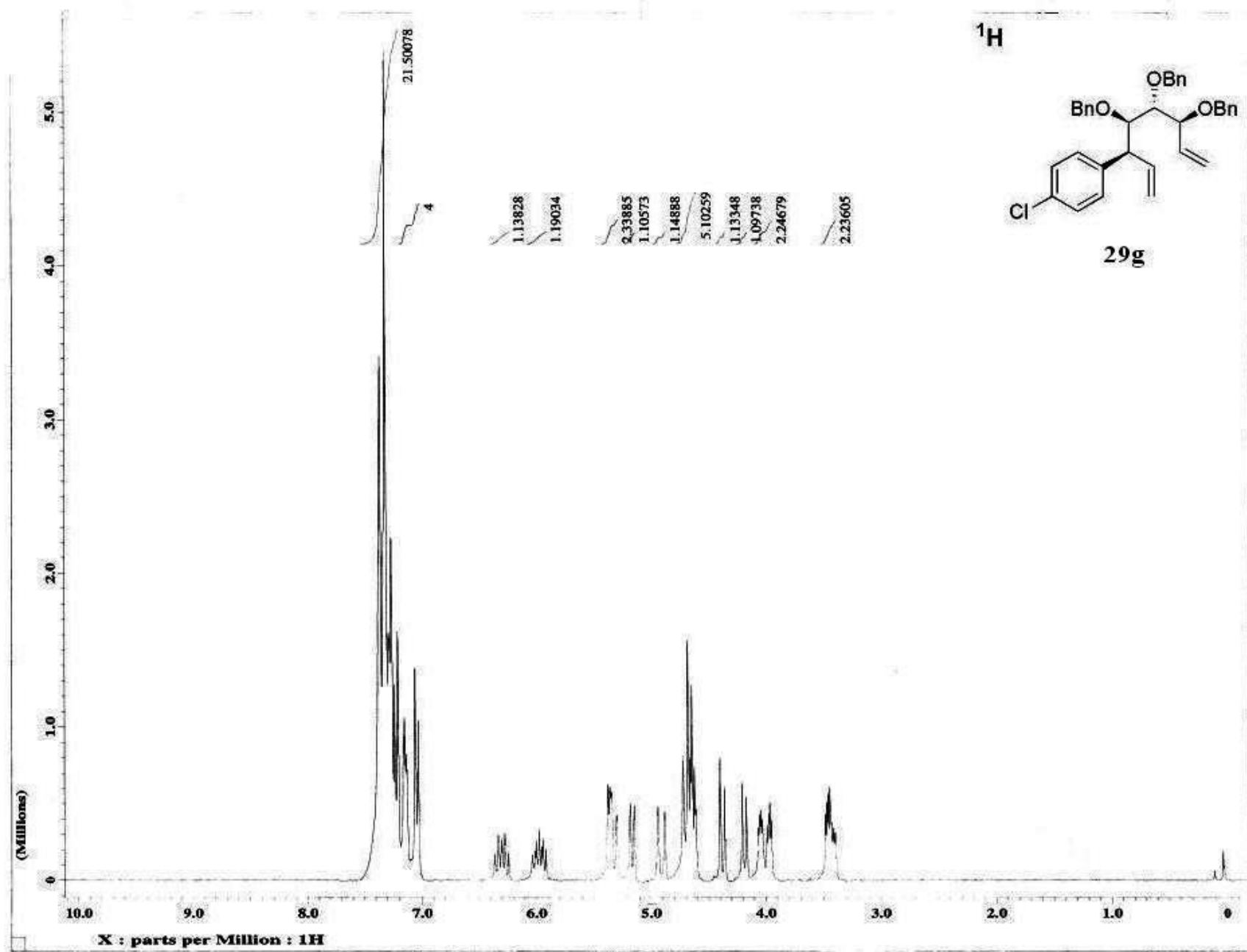


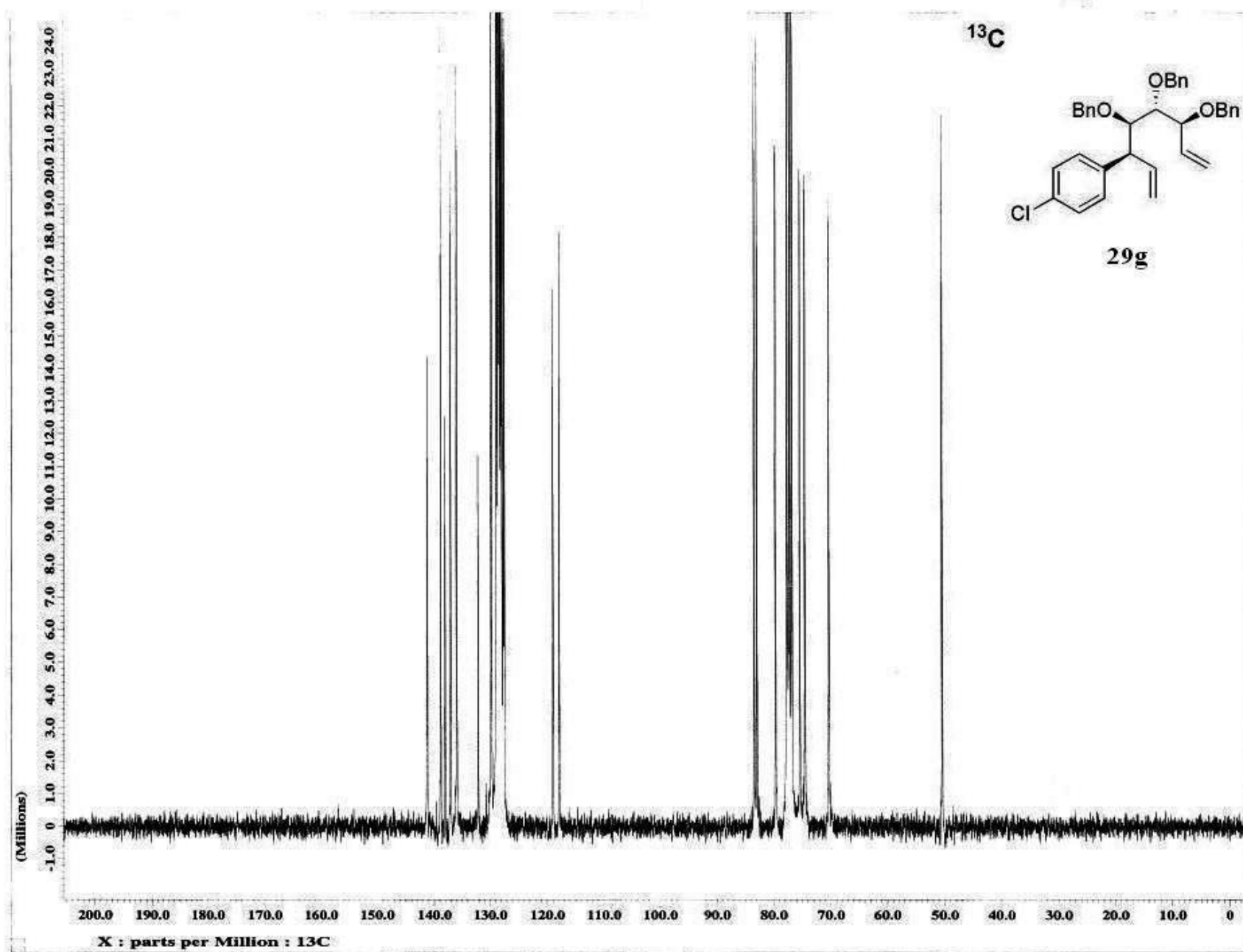


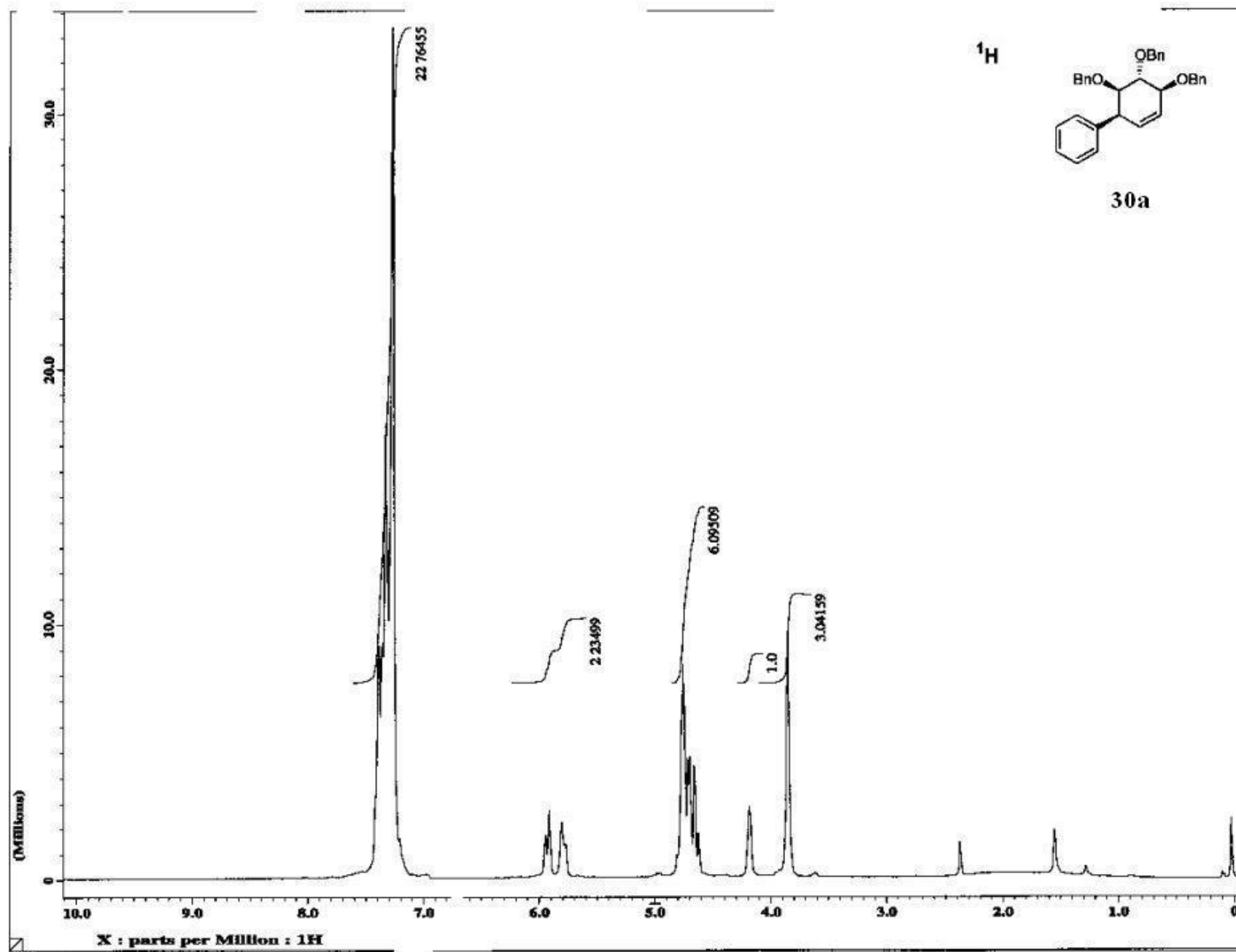


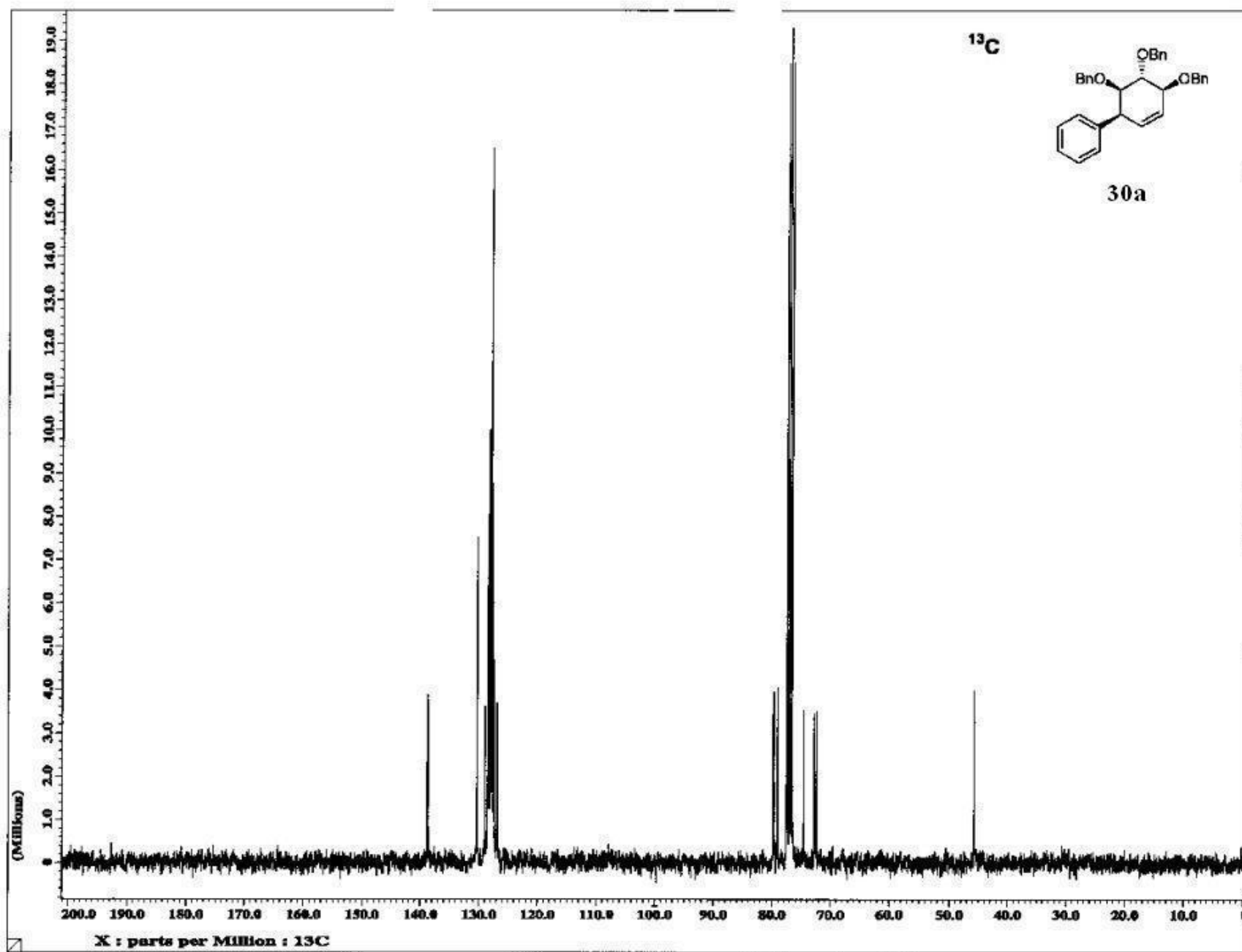


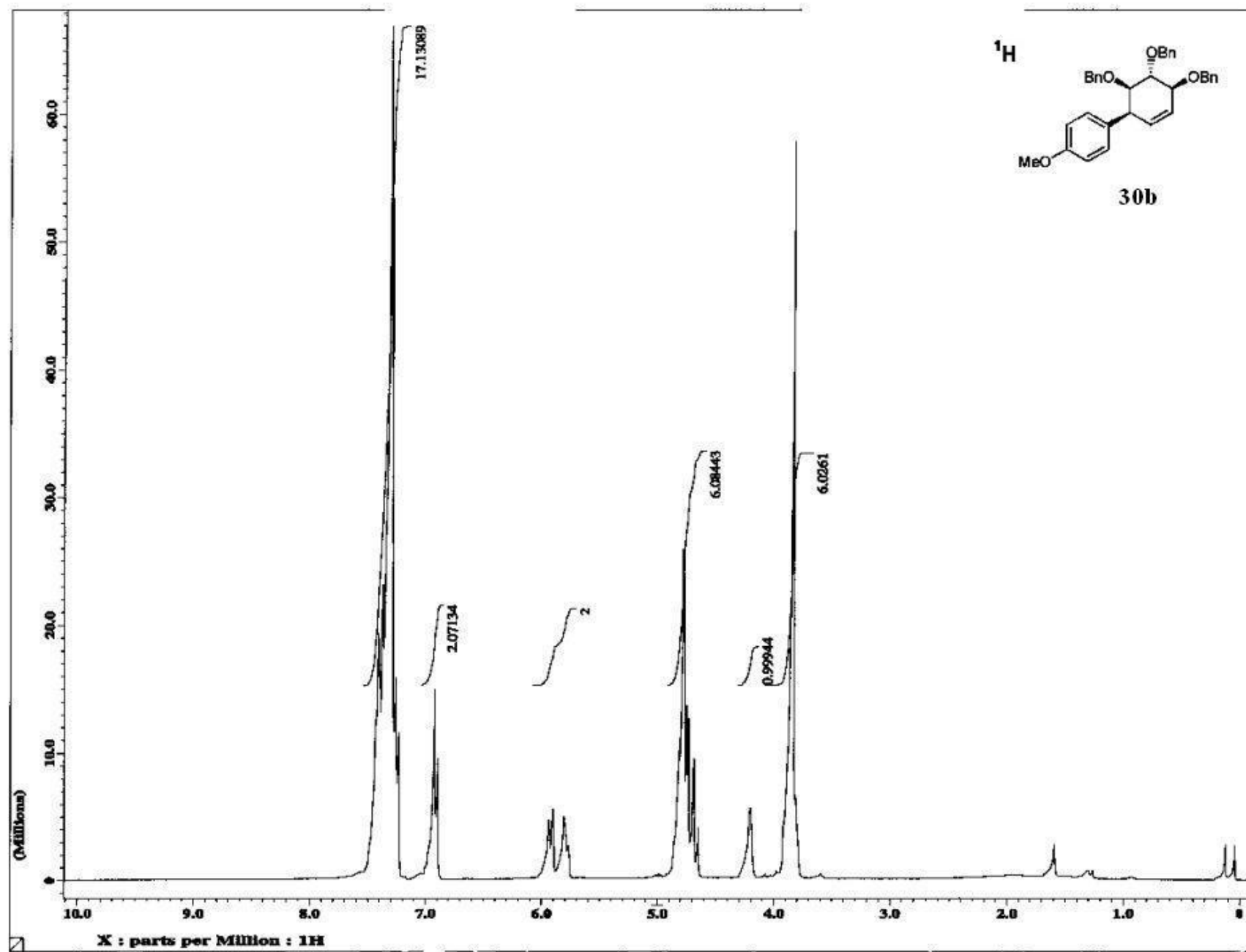


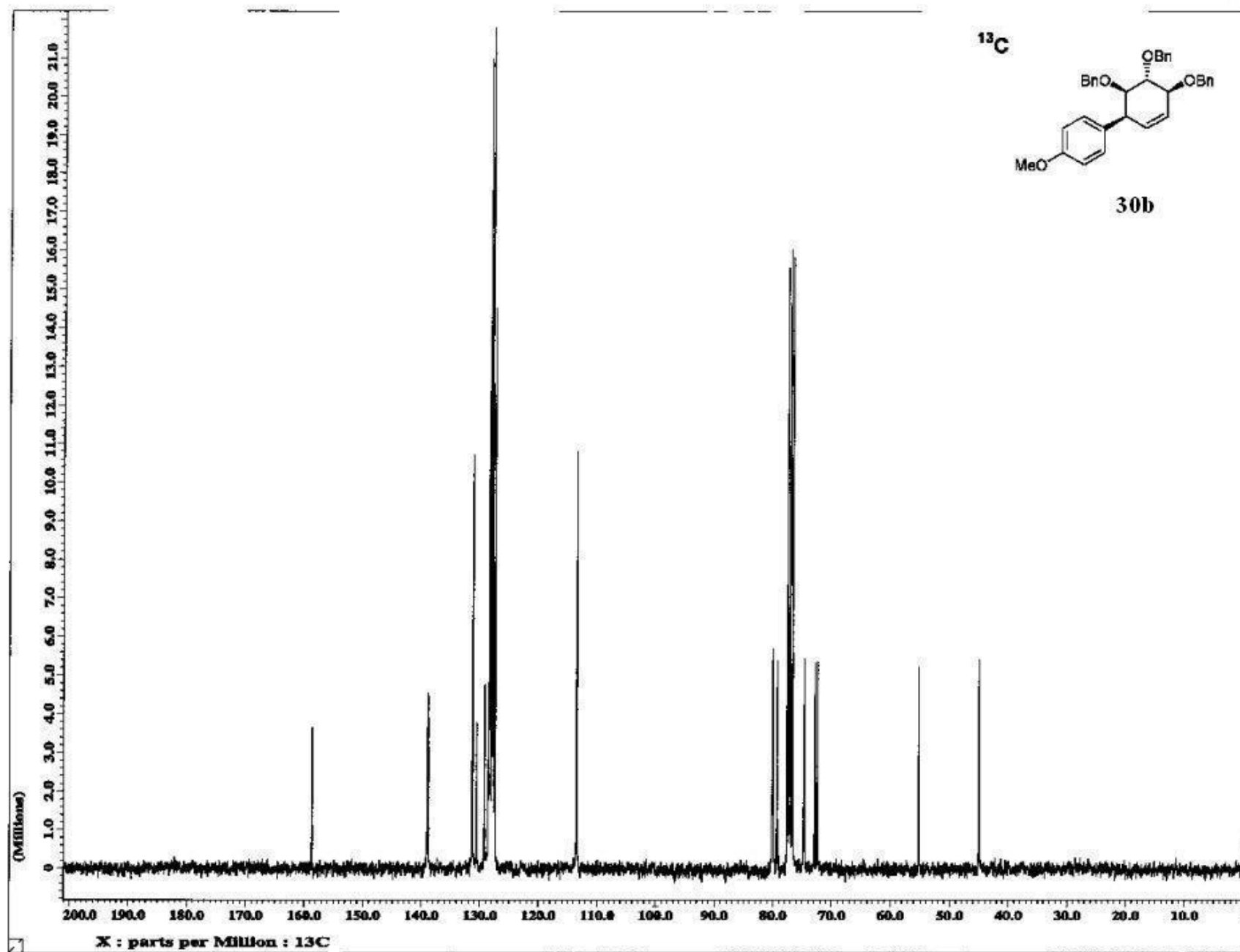


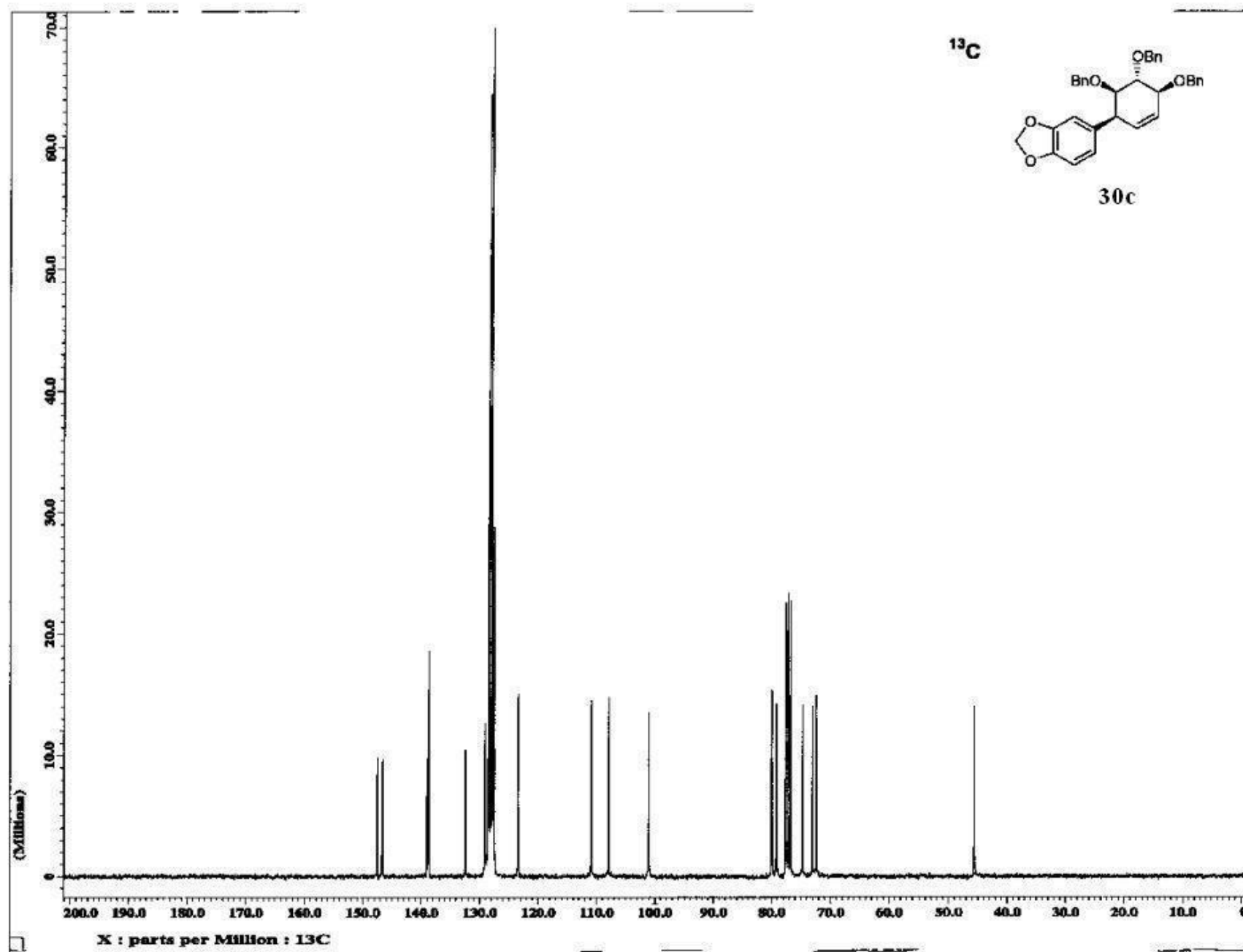


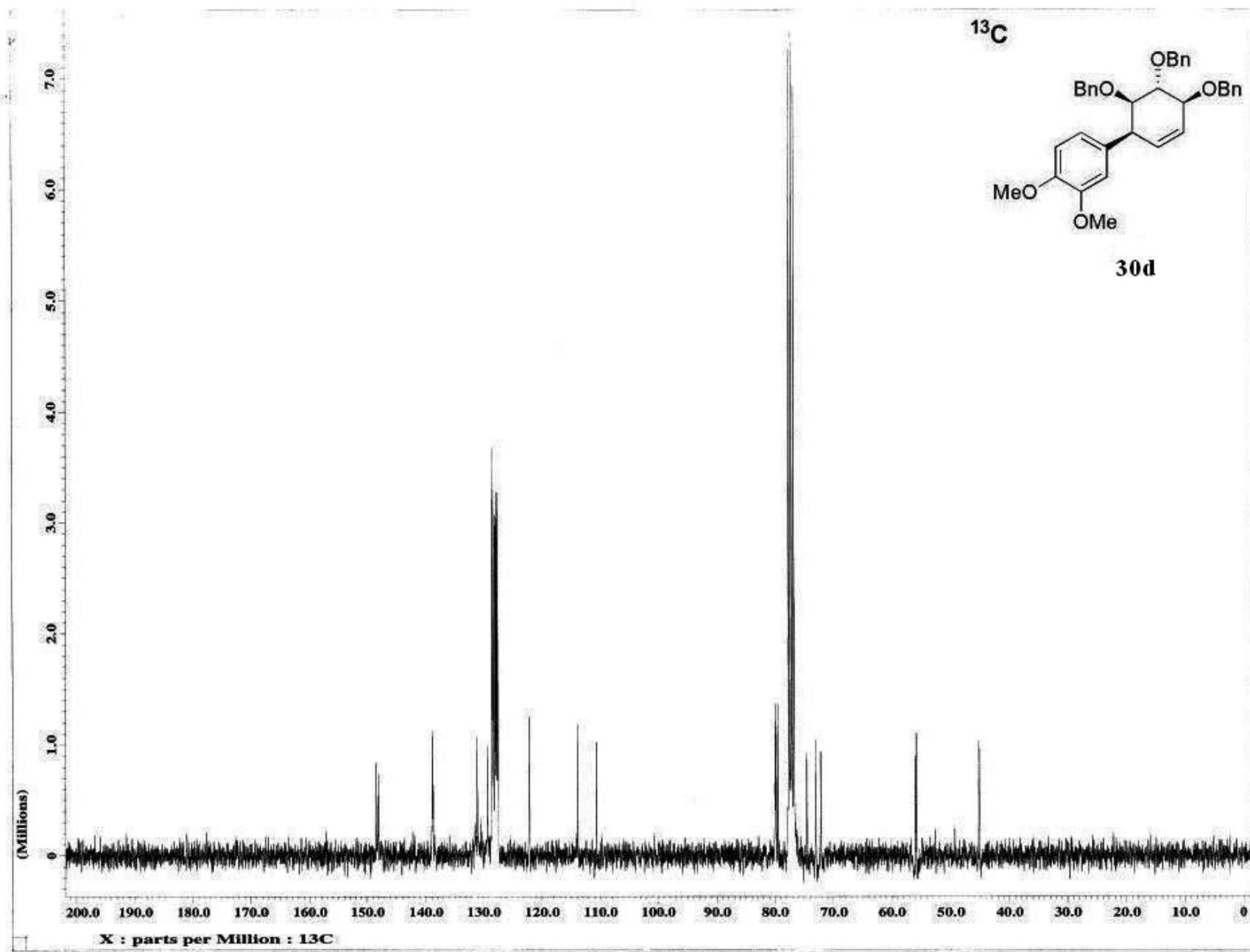


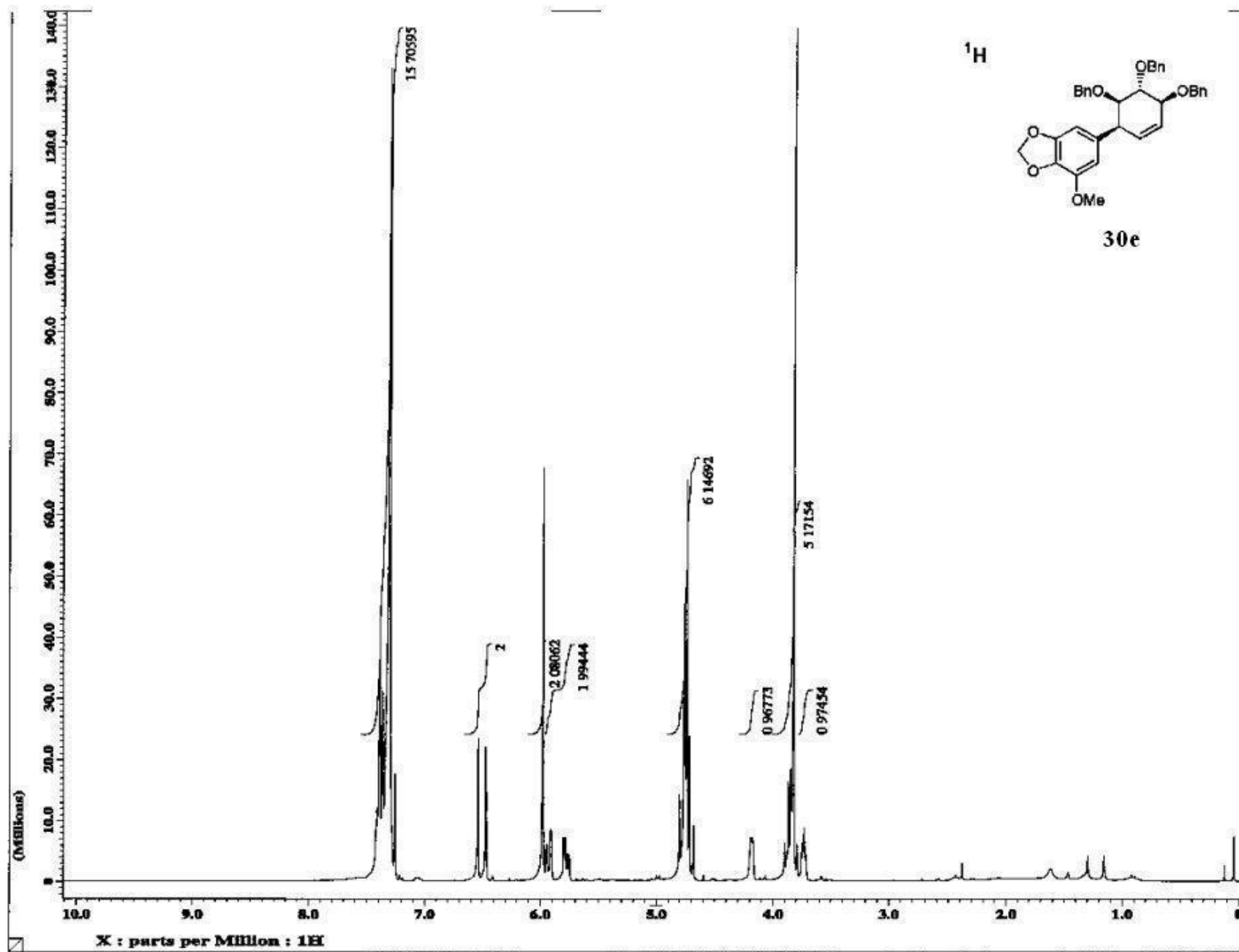


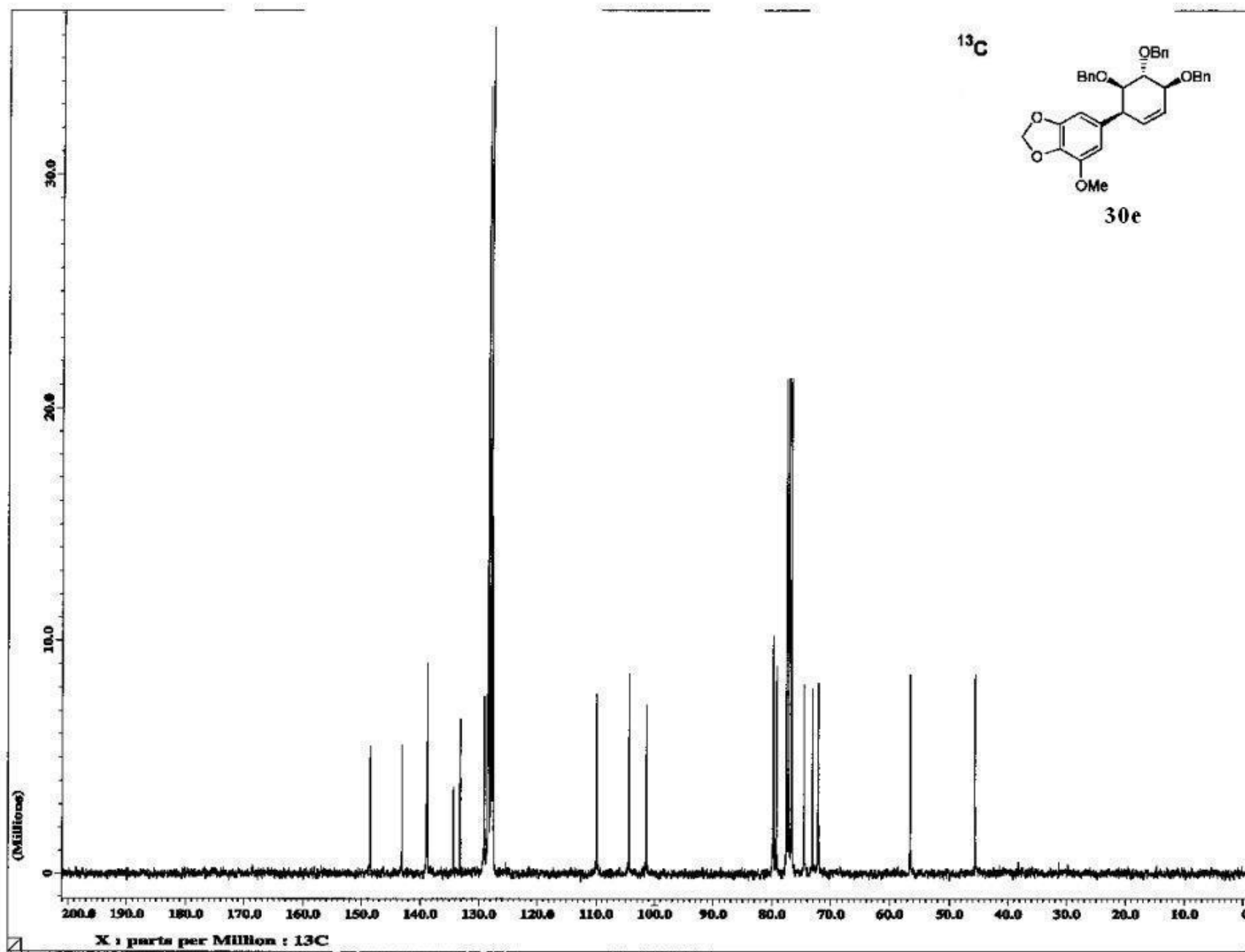


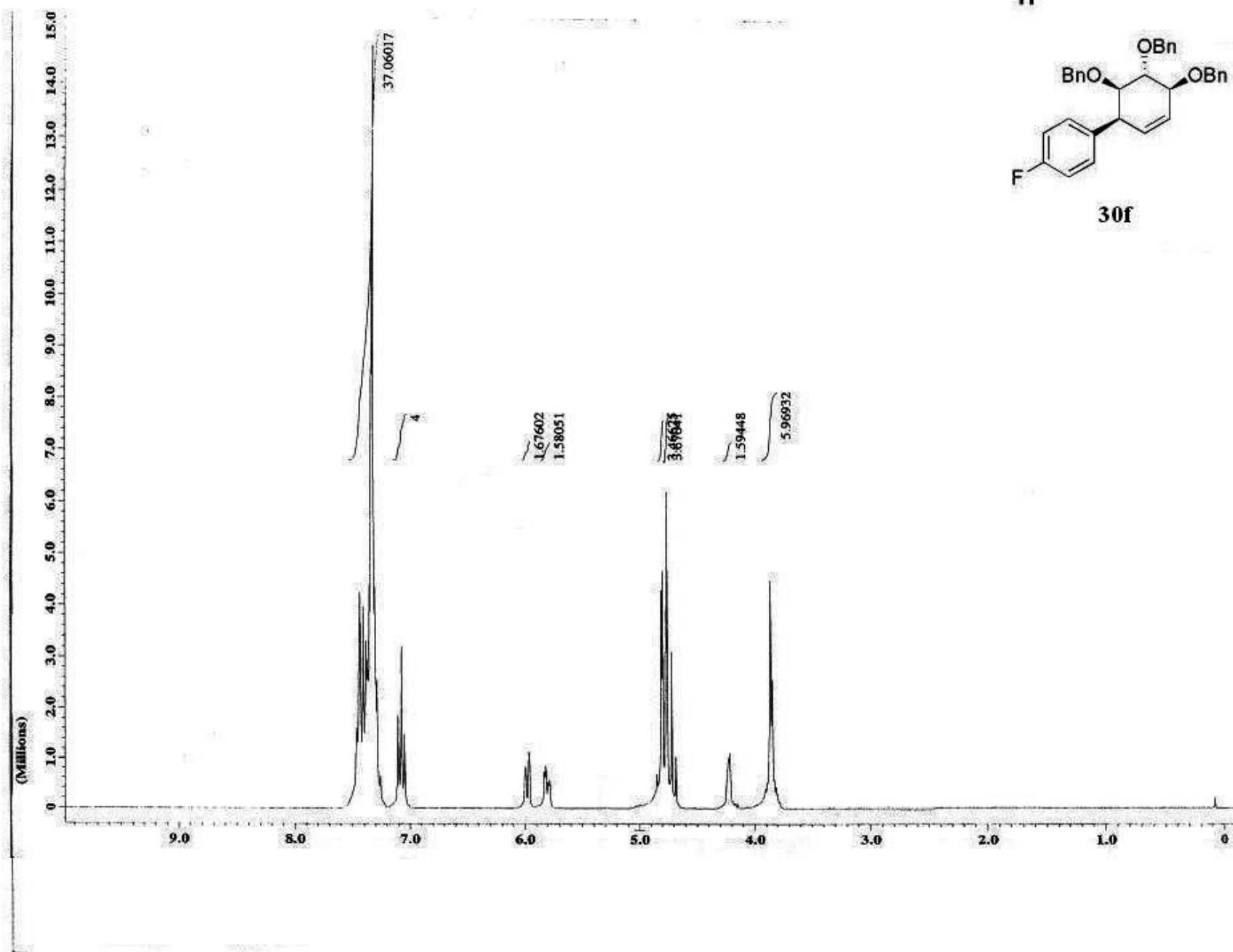


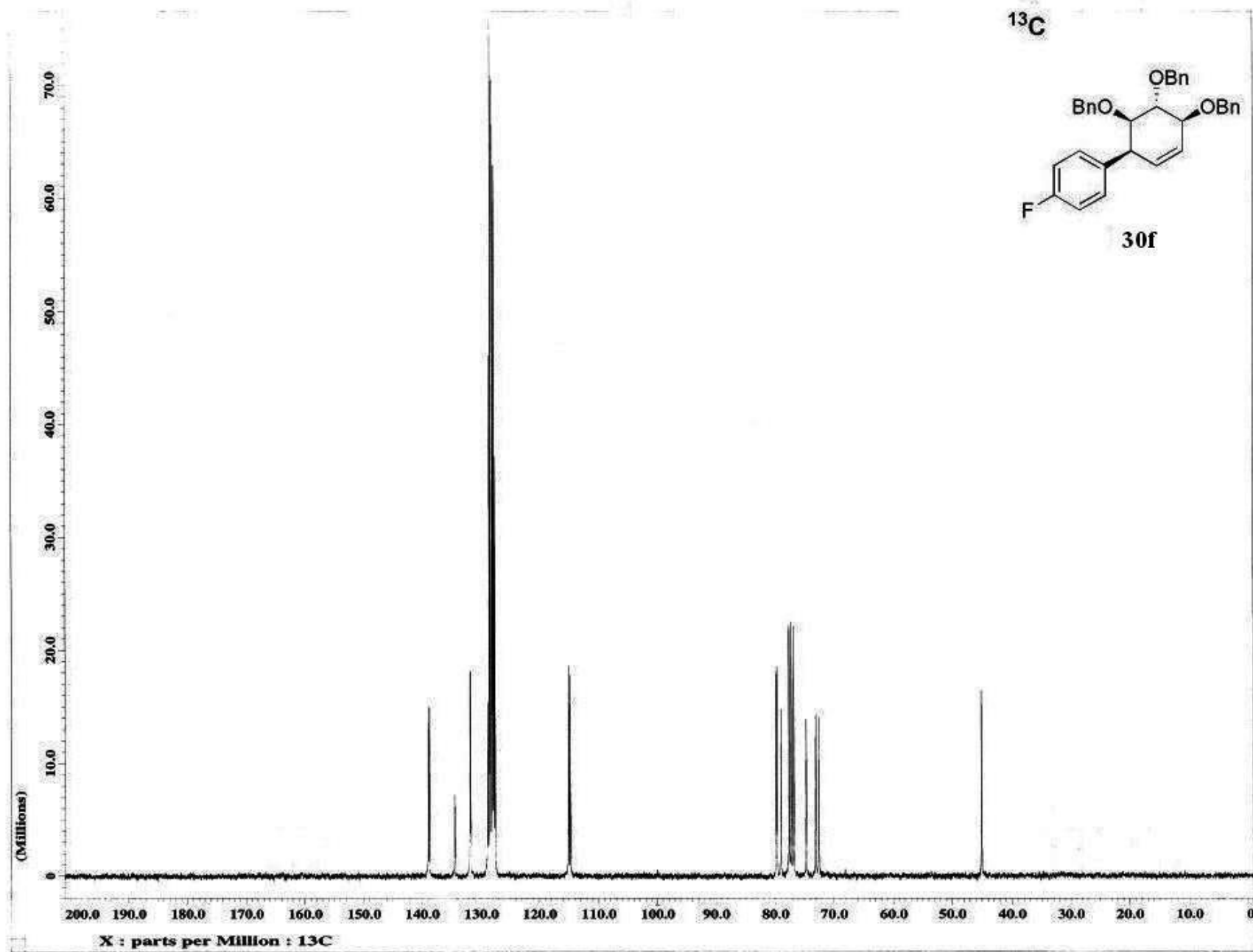


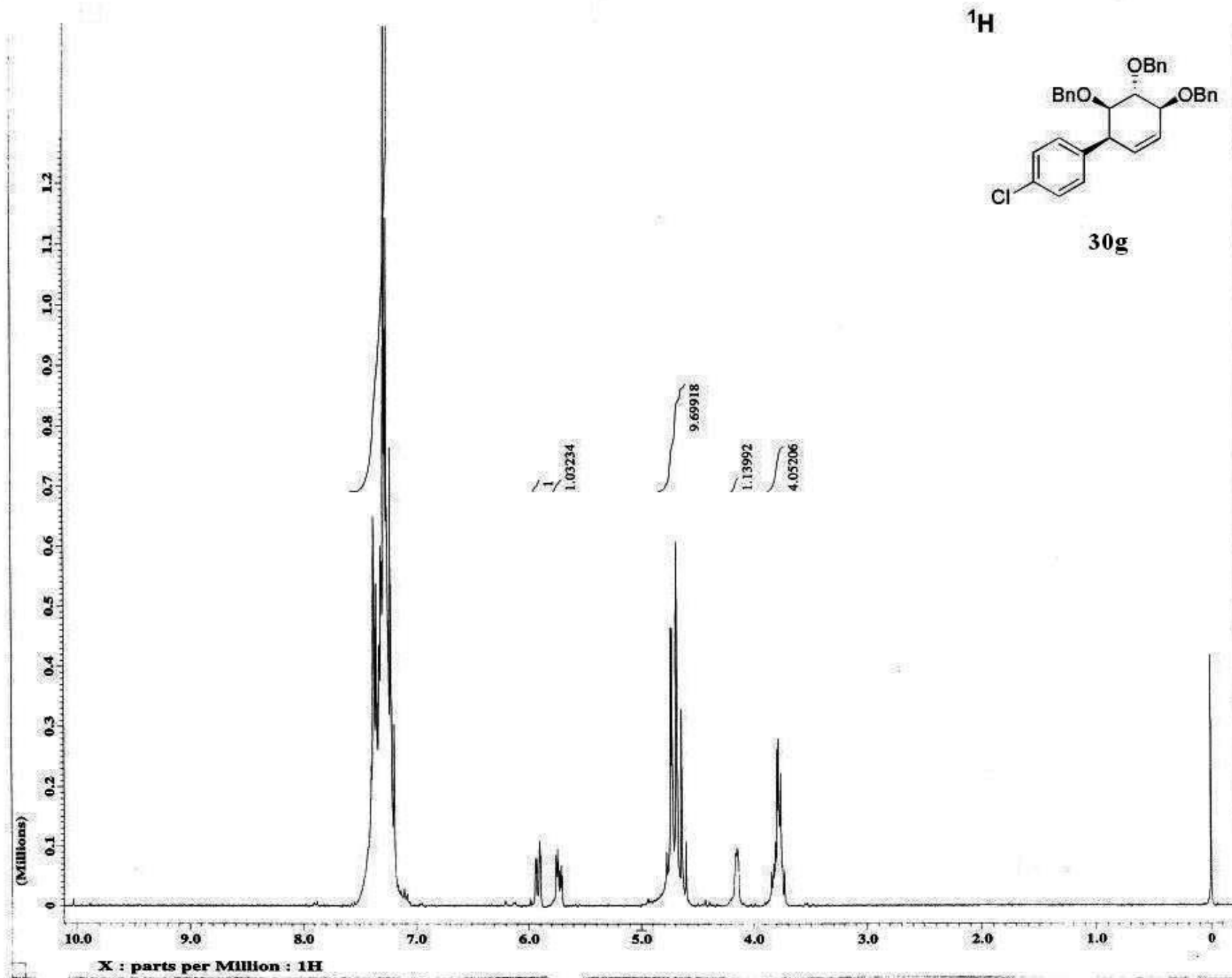


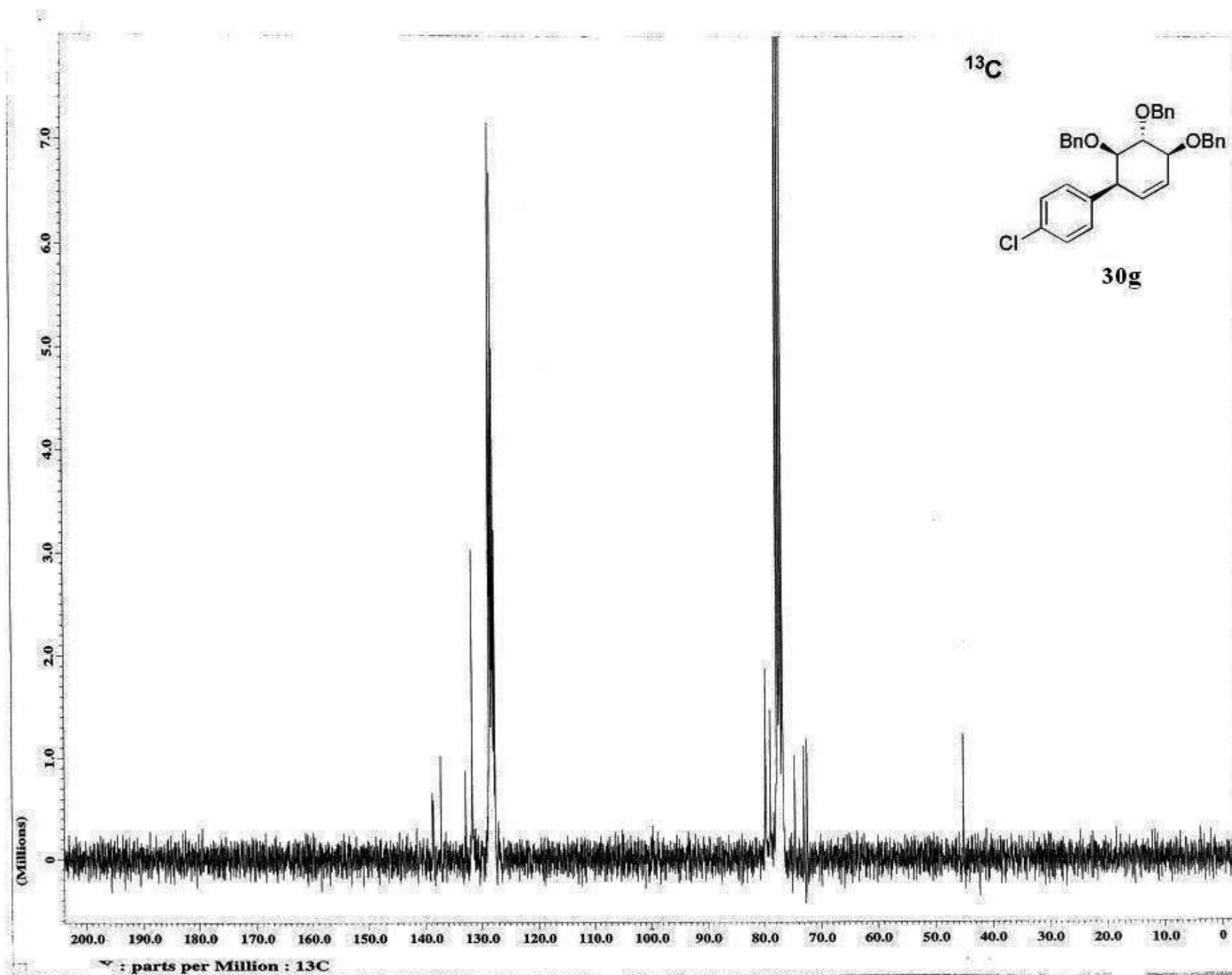


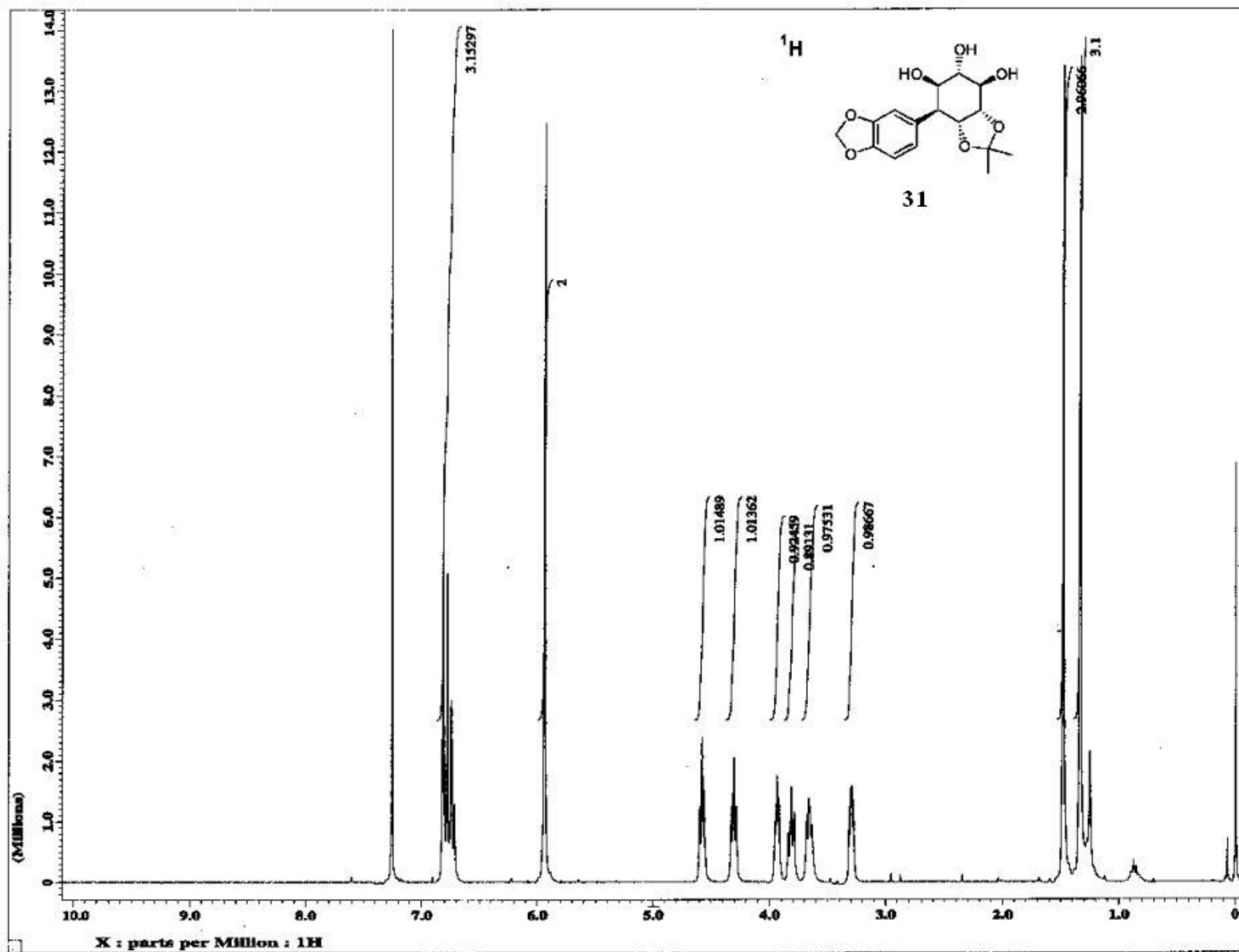


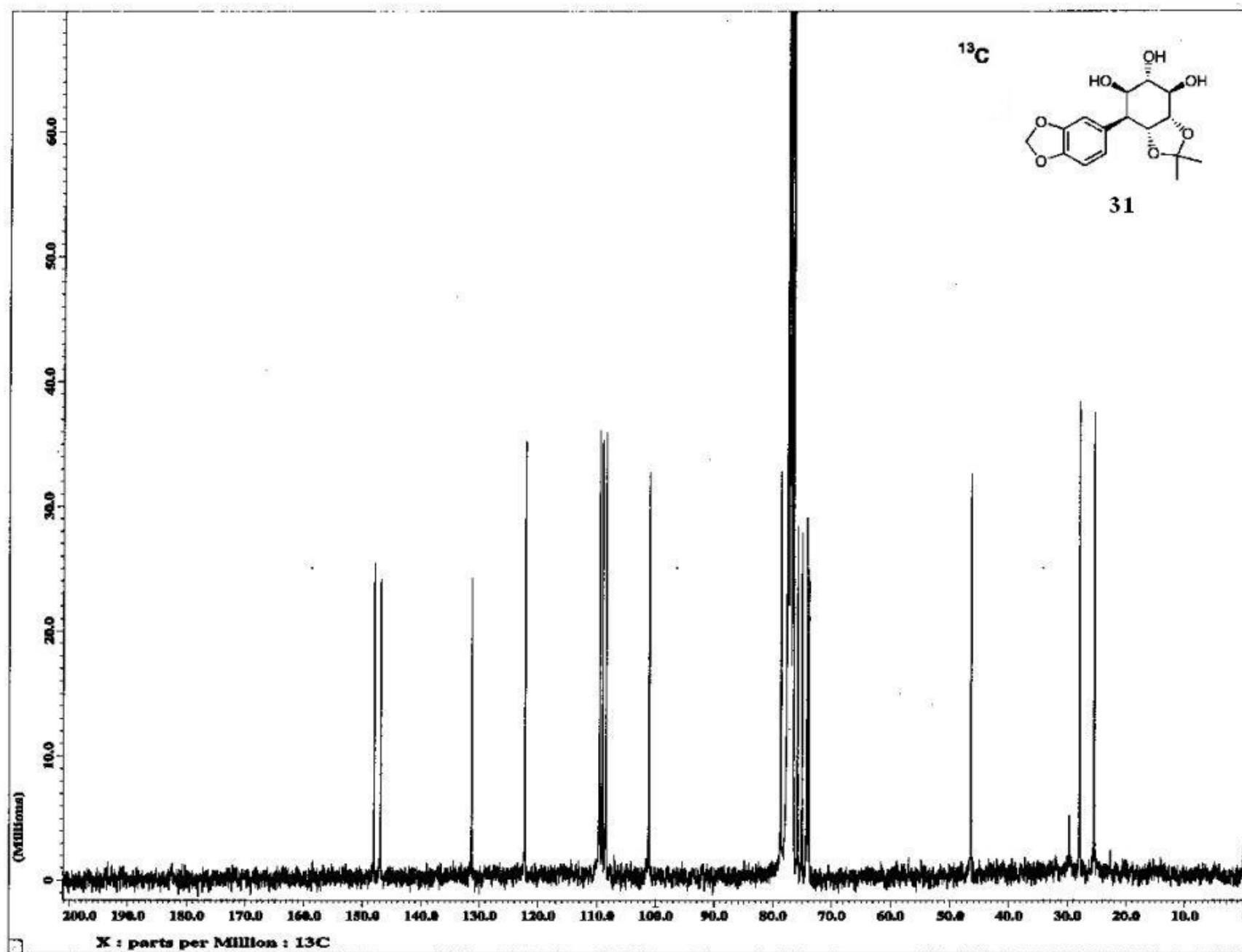


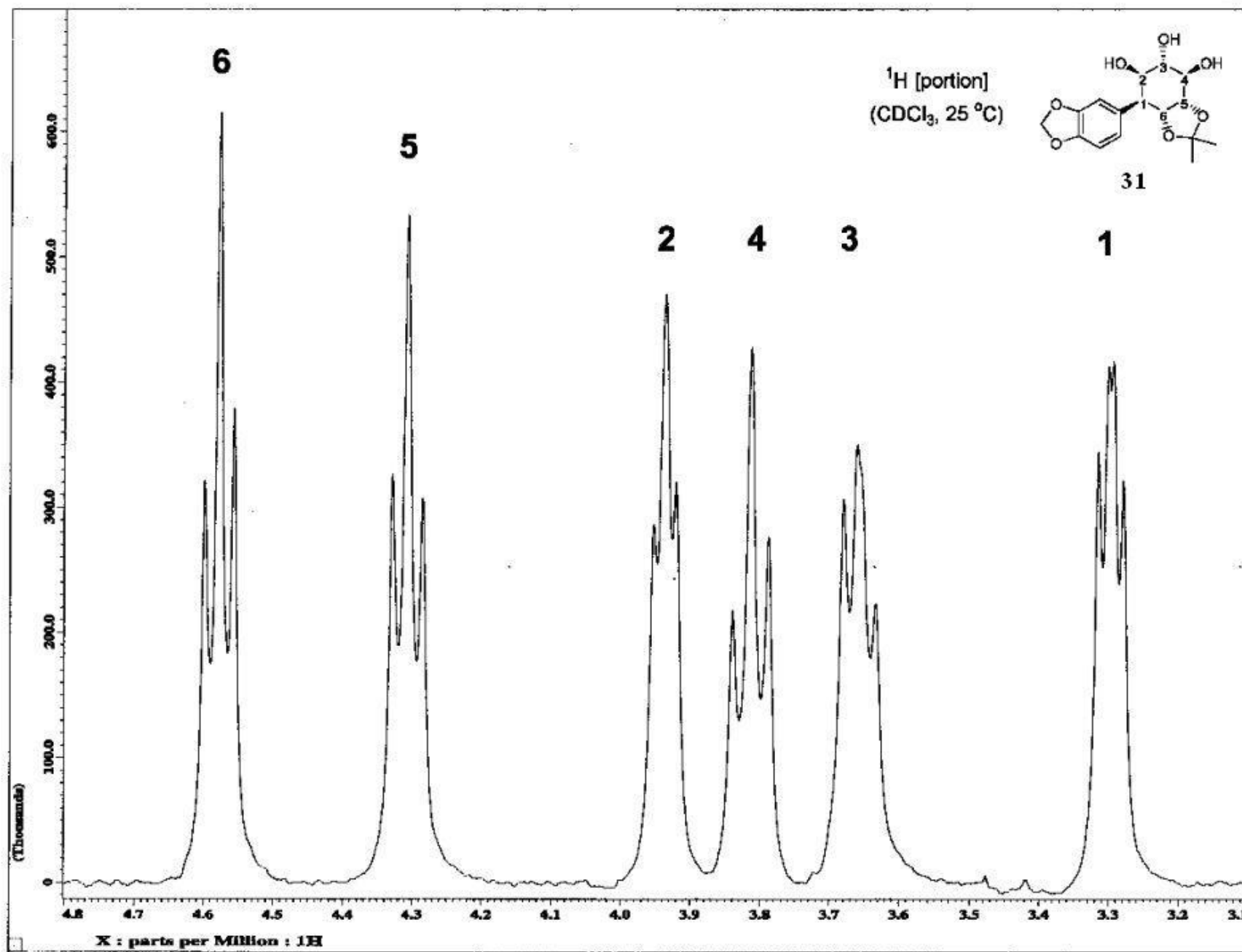


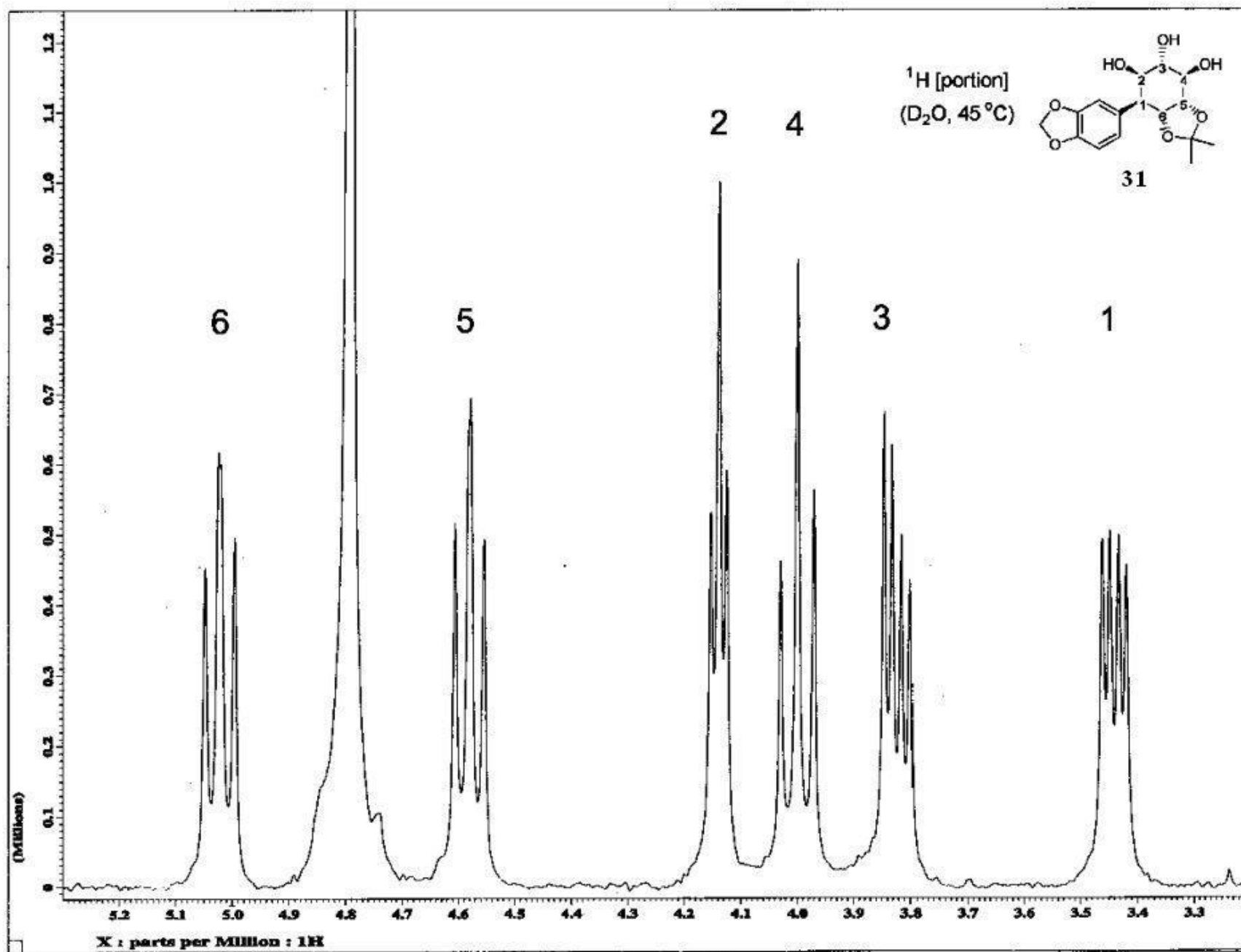












NOESY

31

